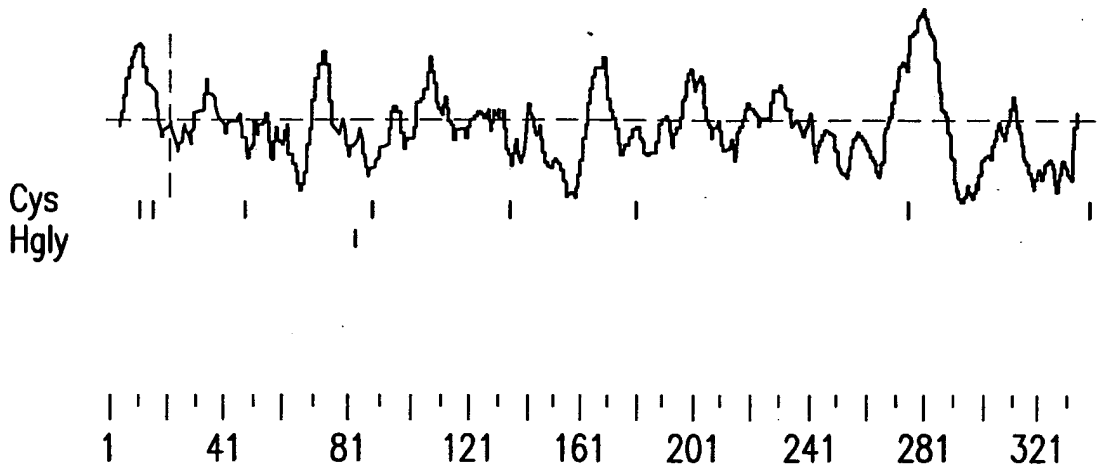
#1

```
                                                                  M   S   P   S   P   T   A   L   F   C   L   11
GGAGTCGACCCACGCGTCCGCAGGGCTGAGGAACC ATG TCT CCA TCC CCG ACC GCC CTC TTC TGT CTT   68

 G   L   C   L   G   R   V   P   A   Q   S   G   P   L   P   K   P   S   L   Q   31
GGG CTG TGT CTG GGG CGT GTG CCA GCG CAG AGT GGA CCG CTC CCC AAG CCC TCC CTC CAG  128

 A   L   P   S   S   L   V   P   L   E   K   P   V   T   L   R   C   Q   G   P   51
GCT CTG CCC AGC TCC CTG GTG CCC CTG GAG AAG CCA GTG ACC CTC CGG TGC CAG GGA CCT  188

 P   G   V   D   L   Y   R   L   E   K   L   S   S   S   R   Y   Q   D   Q   A   71
CCG GGC GTG GAC CTG TAC CGC CTG GAG AAG CTG AGT TCC AGC AGG TAC CAG GAT CAG GCA  248

 V   L   F   I   P   A   M   K   R   S   L   A   G   R   Y   R   C   S   Y   Q   91
GTC CTC TTC ATC CCG GCC ATG AAG AGA AGT CTG GCT GGA CGC TAC CGC TGC TCC TAC CAG  308

 N   G   S   L   W   S   L   P   S   D   Q   L   E   L   V   A   T   G   V   F   111
AAC GGA AGC CTC TGG TCC CTG CCC AGC GAC CAG CTG GAG CTC GTT GCC ACG GGA GTT TTT  368

 A   K   P   S   L   S   A   Q   P   G   P   A   V   S   S   G   G   D   V   T   131
GCC AAA CCC TCG CTC TCA GCC CAG CCC GGC CCG GCG GTG TCG TCA GGA GGG GAC GTA ACC  428

 L   Q   C   Q   T   R   Y   G   F   D   Q   F   A   L   Y   K   E   G   D   P   151
CTA CAG TGT CAG ACT CGG TAT GGC TTT GAC CAA TTT GCT CTG TAC AAG GAA GGG GAC CCT  488

 A   P   Y   K   N   P   E   R   W   Y   R   A   S   F   P   I   I   T   V   T   171
GCG CCC TAC AAG AAT CCC GAG AGA TGG TAC CGG GCT AGT TTC CCC ATC ATC ACG GTG ACC  548

 A   A   H   S   G   T   Y   R   C   Y   S   F   S   S   R   D   P   Y   L   W   191
GCC GCC CAC AGC GGA ACC TAC CGA TGC TAC AGC TTC TCC AGC AGG GAC CCA TAC CTG TGG  608

 S   A   P   S   D   P   L   E   L   V   V   T   G   T   S   V   T   P   S   R   211
TCG GCC CCC AGC GAC CCC CTG GAG CTT GTG GTC ACA GGA ACC TCT GTG ACC CCC AGC CGG  668

 L   P   T   E   P   P   S   S   V   A   E   F   S   E   A   T   A   E   L   T   231
TTA CCA ACA GAA CCA CCT TCC TCG GTA GCA GAA TTC TCA GAA GCC ACC GCT GAA CTG ACC  728

 V   S   F   T   N   K   V   F   T   T   E   T   S   R   S   I   T   T   S   P   251
GTC TCA TTC ACA AAC AAA GTC TTC ACA ACT GAG ACT TCT AGG AGT ATC ACC ACC AGT CCA  788

 K   E   S   D   S   P   A   G   P   A   R   Q   Y   Y   T   K   G   N   L   V   271
AAG GAG TCA GAC TCT CCA GCT GGT CCT GCC CGC CAG TAC TAC ACC AAG GGC AAC CTG GTC  848

 R   I   C   L   G   A   V   I   L   I   I   L   A   G   F   L   A   E   D   W   291
CGG ATA TGC CTC GGG GCT GTG ATC CTA ATA ATC CTG GCG GGG TTT CTG GCA GAG GAC TGG  908

 H   S   R   R   K   R   L   R   H   R   G   R   A   V   Q   R   P   L   P   P   311
CAC AGC CGG AGG AAG CGC CTG CGG CAC AGG GGC AGG GCT GTG CAG AGG CCG CTT CCG CCC  968
```

FIG.1A

```
 L  P  P  L  P  Q  T  R  K  S  H  G  G  Q  D  G  G  R  Q  D  331
CTG CCG CCC CTC CCG CAG ACC CGG AAA TCA CAC GGG GGT CAG GAT GGA GGC CGA CAG GAT 1028

 V  H  S  R  G  L  C  S  *                                    340
GTT CAC AGC CGC GGG TTA TGT TCA TGA                           1055

CCGCTGAACCCCAGGCACGGTCGTATCCAAGGGAGGGATCATGGCATGGGAGGCGACTCAAAGACTGGCGTGTGTGGAG 1134

CGTGGAAGCAGGAGGGCAGAGGCTACAGCTGTGGAAACGAGGCCATGCTGCCTCCTCCTGGTGTTCCATCAGGGAGCCG 1213

TTCGGCCAGTGTCTGTCTGTCTGTCTGCCTCTCTGTCTGAGGGCACCCTCCATTTGGGATGGAAGGAATCTGTGGAGAC 1292

CCCATCCTCCTCCCTGCACACTGTGGATGACATGGTACCCTGGCTGGACCACATACTGGCCTCTTTCTTCAACCTCTCT 1371

AATATGGGCTCCAGACGGATCTCTAAGGTTCCCAGCTCTCAGGGTTGACTCTGTTCCATCCTCTGTGCAAAATCCTCCT 1450

GTGCTTCCCTTTGGCCCTCTGTGCTCTTGTCTGGTTTTCCCCAGAAACTCTCACCCTCACTCCATCTCCCACTGCGGTC 1529

TAACAAATCTCCTTTCGTCTCTCAGAACGGGTCTTGCAGGCAGTTTGGGTATGTCATTCATTTTCCTTAGTGTAAAACT 1608

AGCACGTTGCCCGCTTCCCTTCACATTAGAAAACAAGATCAGCCTGTGCAACATGGTGAAACCTCATCTCTACCAACAA 1687

AACAAAAAAACACAAAAATTAGCCAGGTGTGGTGGTGCATCCCTATACTCCCAGCAACTCGGGGGGCTGAGGTGGGAGA 1766

ATGGCTTGAGCCTGGGAGGCAGAGGTTGCAGTGAGCTGAGATCACACCACTGCACTCTAGCTCGGGTGACGAAGCCTGA 1845

CCTTGTCTCAAAAAATACAGGGATGAATATGTCAATTACCCTGATTTGATCATAGCACGTTGTATACATGTACTGCAAT 1924

ATTGCTGTCCACCCCATAAATATGTACAATTATGTATACATTTTTAAAATCATAAAAATAAGATAATGAAAAAAAAAAA 2003

AAAAAAAAAAAAAAGGGCGGGCCGCTAGACTAGTCTAGAGAACA                  2047
```

FIG.1B



MSPSPTALFCLGLCLGRVPAQSGPLPKPSLQALPSSLVPLEKPVTLRCQGPPGVDLYRLE
KLSSSRYQDQAVLFIPAMKRSLAGRYRCSYQNGSLWSLPSDQLELVATGVFAKPSLSAQP
GPAVSSGGDVTLQCQTRYGFDQFALYKEGDPAPYKNPERWYRASFPIITVTAAHSGTYRC
YSFSSRDPYLWSAPSDPLELVVTGTSVTPSRLPTEPPSSVAEFSEATAELTVSFTNKVFT
TETSRSITTSPKESDSPAGPARQYYTKGNLVRICLGAVILIILAGFLAEDWHSRRKRLRH
RGRAVQRPLPPLPPLPQTRKSHGGQDGGRQDVHSRGLCS

FIG.2

```
                10        20        30        40        50        60        70
inputs ATGACGCCCGCCCTCACAGCCCTGCTCTGCCTTGGGCTGAGTCTGGGCCCCAGGACCCGCGTGCAGGCAG
       ::::: ::  :::  :: :::::  :::: :::::::::.:::::: :  .: .:: ::  :::::. .:
       ATGTCTCCATCCCCGACCGCCCTCTTCTGTCTTGGGCTGTGTCTGGGGCG-TGTGCCAGC--GCAGAGTG
                10        20        30        40        50          60

                80        90       100       110       120       130
inputs GGCCCTTCCCCAAACCCACCCTCTGGGCTGAGCCAGGCTCTGTGAT-CAGCTGGGGGAGCCCCGTGACCA
       :.::  :::::::.:::.::::: .:::: .::: .:::: ::.: :  :::::.:::::  ::::::
       GACCGCTCCCCAAGCCCTCCCTCCAGGCTCTGCCCAGCTCCCTGGTGCCCCTGGAGAAGCCA-GTGACCC
        70        80        90       100       110       120       130

     140       150       160       170       180       190       200
inputs TCTGGTGTCAGGGGAGCCTGGAGGCCCAGGAGTACCGACTGGATAAAGAGGGAAGCCCAGAGCCCTTGGA
       :: :::: :::::  .:::      ::.:: ::.  ::: :..          ::: .:::     ...
       TCCGGTGCCAGGG--ACCT------CCGGGCGTG--GACCTGTA--------CCGCCTGGAG-----AAG
         140       150             160       170             180

     210       220       230       240       250       260       270
inputs CAGAAATAACCCACTGGAACCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGACAGAGCACCATGCG
       :.:::.:  :: .:.::.::: :.::.:: ::: .  ::: ::::::. :::::: .... . :. ::
       CTGAGTT--CCAGCAGGTACC-AGGATCA-GGCAGTCCTCTTCATCCCGGCCATGAAGAGAAGTCTGGCT
           190       200       210       220       230       240

     280       290       300       310       320       330       340
inputs GGGAGATACCGCTGCCACTATTACAGCTCTGCAG--GCTGGTCAGAGCCCAGCGACCCCCTGGAGCTGGT
       ::. : :::::::::  :::   ::: .: : ::   ::::::  .:::::::::::  :::::::: ::
       GGACGCTACCGCTGCTCCTAC--CAGAACGGAAGCCTCTGGTCCCTGCCCAGCGACCAGCTGGAGCTCGT
     250       260       270       280       290       300       310

       350       360       370       380       390       400       410
inputs GATGACAGGATTCTACAACAAACCCACCCTCTCAGCCCTGCCCAGCCCTGTGGTGGCCTCAGGGGGGAAT
        .  ::.::: : :. . ::::::::.: ::::::::::.::::.:::: : :::: : :::::.::::.:
       TGCCACGGGAGTTTTTGCCAAACCCTCGCTCTCAGCCCAGCCCGGCCCGGCGGTGTCGTCAGGAGGGGAC
       320       330       340       350       360       370       380

       420       430       440       450       460       470       480
inputs ATGACCCTCCGATGTGGCTCACAGAAGGGATATCACCATTTTGTTCTGATGAAGGAAGGAGAACACCAGC
       .:.:::::: :..::: . .:.:.:.: :: :.: ::::.:::: ::::.. ::::::::
       GTAACCCTACAGTGTCAGACTCGGTATGGCTTTGACCAATTTGCTCTGTACAAGGAAGG----------
       390       400       410       420       430       440

       490       500       510       520       530       540       550
inputs TCCCCCGGACCCTGGACTCACAGCAGCTCCACAGTGGGGGGTTCCAGGCCCTGTTCCCTGTGGGCCCCGT
             ::::::::                                :   :::::.             :..
       ------GGACCCTG---------------------------C---GCCCTA-------------CAA
              450                                      460
```

FIG.3A

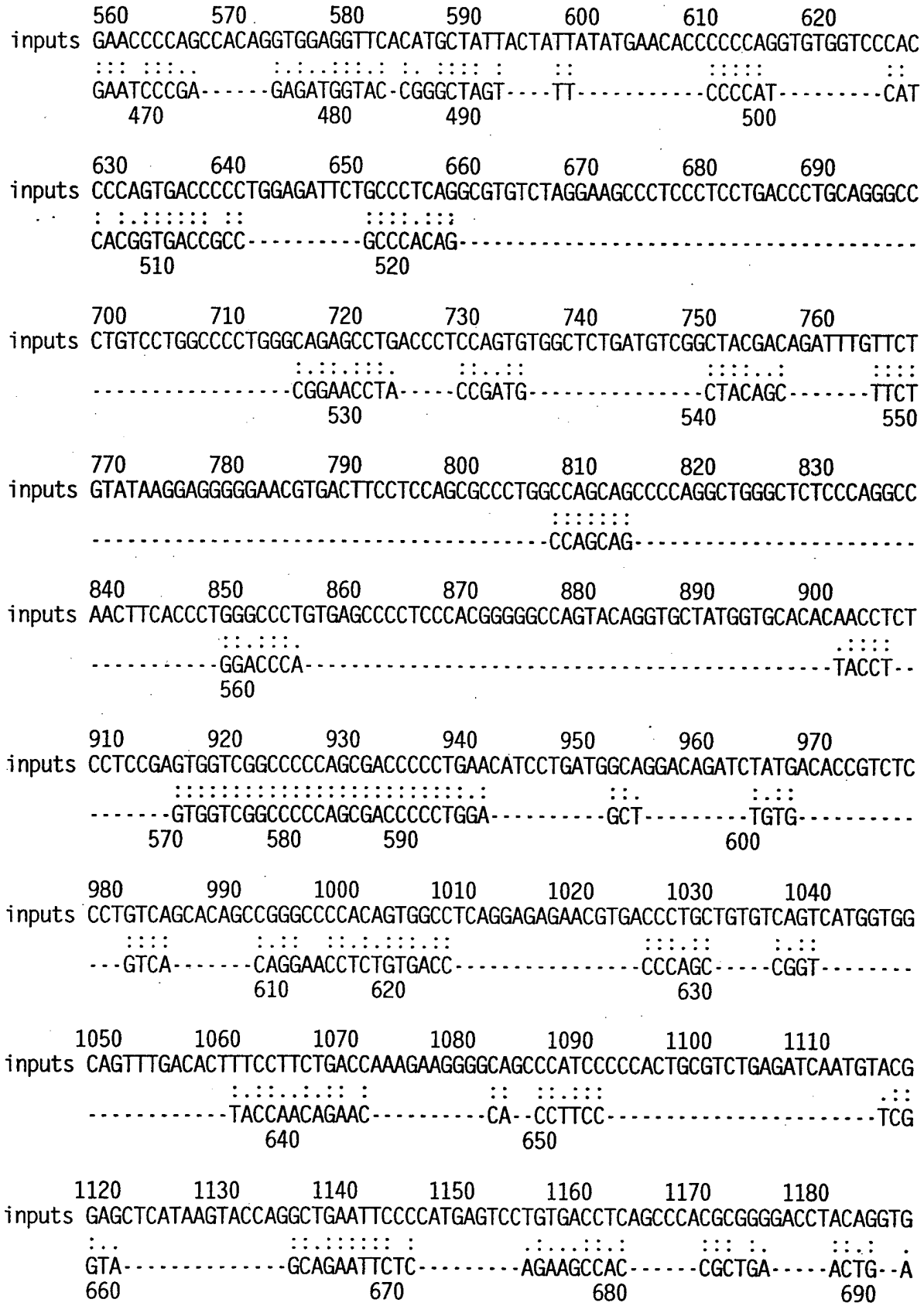


FIG.3B

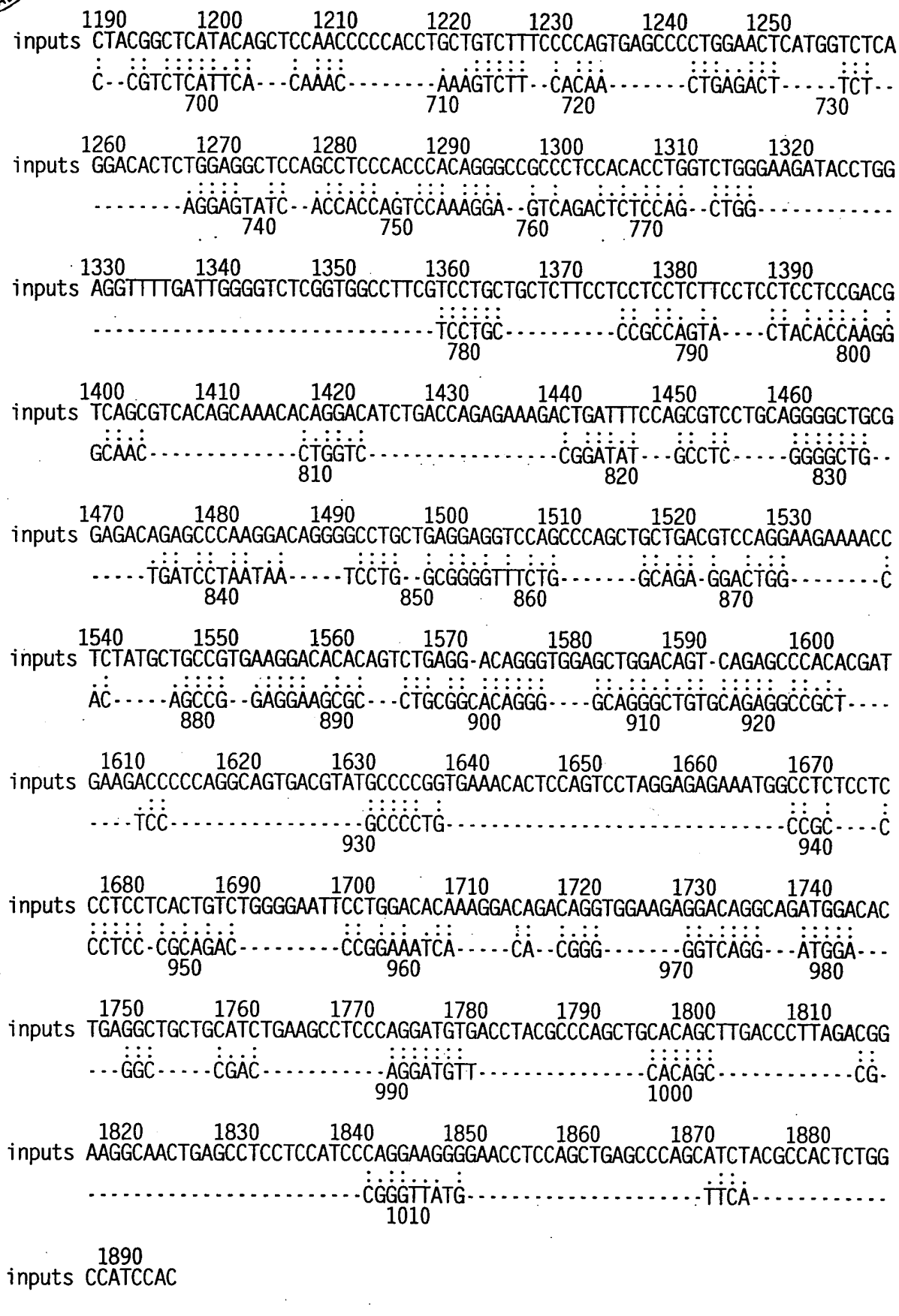


FIG.3C

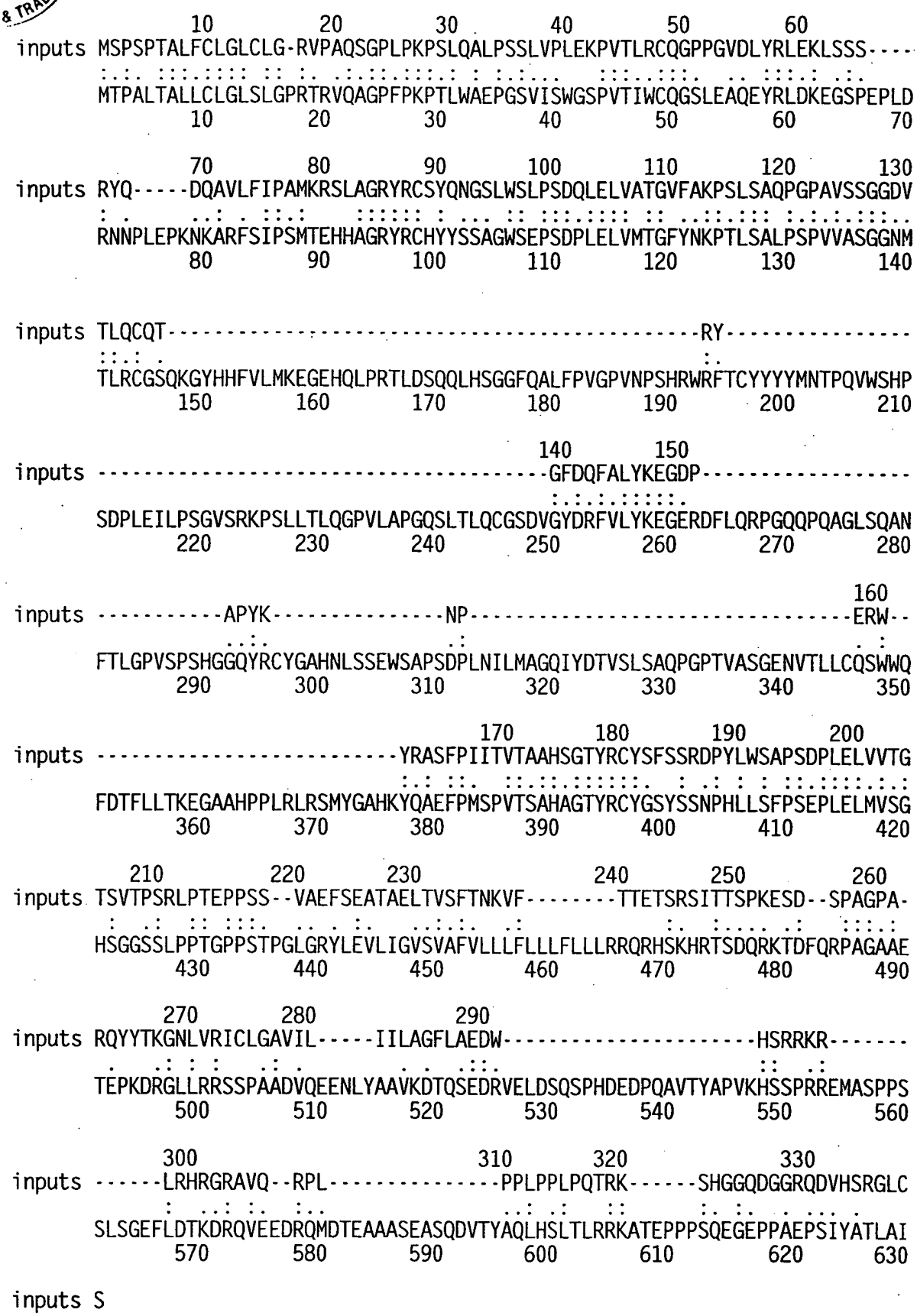


FIG.4

```
                *->GesvtLtCsvsgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
                    + vtL+C+         + v  y +  k  ++         r++ +
hT268     41    EKPVTLRCQGP------PGVDLY-RLEKlSSS--------RYQDQ-- 70

                anlsegrfsissltLtissvekeDsGtYtCvv<-*
                           ++L i   +++ +G Y+C
hT268     71    -----------AVLFIPAMKRSLAGRYRCSY    90
```

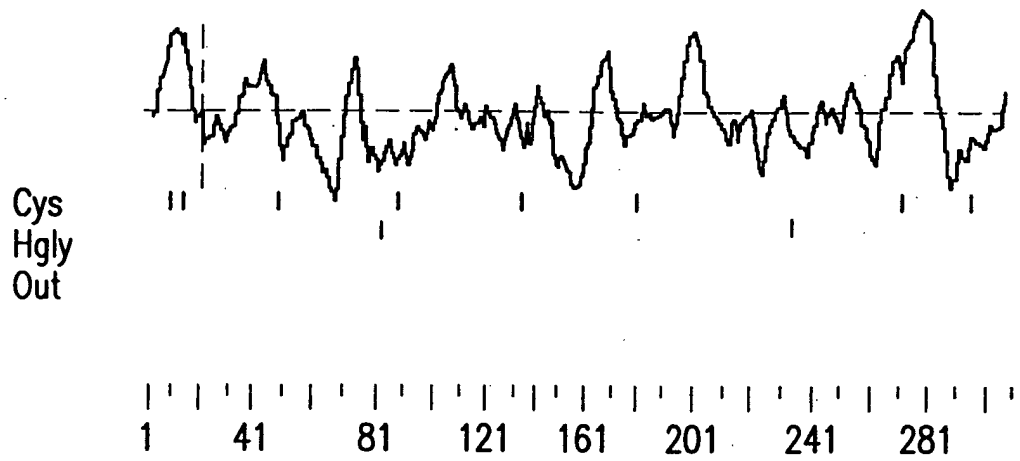
FIG.5A

```
                *->GesvtLtCsvsgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
                   G++vtL+C+++    +  ++  y k+g++ +     y+++
hT268    127    GGDVTLQCQTR---YGFDQFALY-KEGDpAP-----YKNPERWYR-- 162

                anlsegrfsissltLtissvekeDsGtYtCvv<-*
                           ++++i++v++  sGtY+C
hT268    163    -----------ASFPIITVTAAHSGTYRCYS    182
```

FIG.5B

```
                                                                  M   S   P   A      4
GAGTCGACCCACGCGTCCGCTTCCCTGCTTGGCCACATAGCTCAGGACTGGGTTGCAGAACC ATG TCT CCA GCC     74

 S   P   T   F   F   C   I   G   L   C   V   L   Q   V   I   Q   T   Q   S   G     24
TCA CCC ACT TTC TTC TGT ATT GGG CTG TGT GTA CTG CAA GTG ATC CAA ACA CAG AGT GGC    134

 P   L   P   K   P   S   L   Q   A   Q   P   S   S   L   V   P   L   G   Q   S     44
CCA CTC CCC AAG CCT TCC CTC CAG GCT CAG CCC AGT TCC CTG GTA CCC CTG GGT CAG TCA    194

 V   I   L   R   C   Q   G   P   P   D   V   D   L   Y   R   L   E   K   L   K     64
GTT ATT CTG AGG TGC CAG GGA CCT CCA GAT GTG GAT TTA TAT CGC CTG GAG AAA CTG AAA    254

 P   E   K   Y   E   D   Q   D   F   L   F   I   P   T   M   E   R   S   N   A     84
CCG GAG AAG TAT GAA GAT CAA GAC TTT CTC TTC ATT CCA ACC ATG GAA AGA AGT AAT GCT    314

 G   R   Y   R   C   S   Y   Q   N   G   S   H   W   S   L   P   S   D   Q   L    104
GGA CGG TAT CGA TGC TCT TAT CAG AAT GGG AGT CAC TGG TCT CTC CCA AGT GAC CAG CTT    374

 E   L   I   A   T   G   V   Y   A   K   P   S   L   S   A   H   P   S   S   A    124
GAG CTA ATT GCT ACA GGT GTG TAT GCT AAA CCC TCA CTC TCA GCT CAT CCC AGC TCA GCA    434

 V   P   Q   G   R   D   V   T   L   K   C   Q   S   P   Y   S   F   D   E   F    144
GTC CCT CAA GGC AGG GAT GTG ACT CTG AAG TGC CAG AGC CCA TAC AGT TTT GAT GAA TTC    494

 V   L   Y   K   E   G   D   T   G   P   Y   K   R   P   E   K   W   Y   R   A    164
GTT CTA TAC AAA GAA GGG GAT ACT GGG CCT TAT AAG AGA CCT GAG AAA TGG TAC CGG GCC    554

 N   F   P   I   I   T   V   T   A   A   H   S   G   T   Y   R   C   Y   S   F    184
AAT TTC CCC ATC ATC ACA GTG ACT GCT GCT CAC AGT GGG ACG TAC CGG TGT TAC AGC TTC    614

 S   S   S   S   P   Y   L   W   S   A   P   S   D   P   L   V   L   V   V   T    204
TCC AGC TCA TCT CCA TAC CTG TGG TCA GCC CCG AGT GAC CCT CTA GTG CTT GTG GTT ACT    674

 G   L   S   A   T   P   S   Q   V   P   T   E   E   S   F   P   V   T   E   S    224
GGA CTC TCT GCC ACT CCC AGC CAG GTA CCC ACG GAA GAA TCA TTT CCT GTG ACA GAA TCC    734

 S   R   R   P   S   I   L   P   T   N   K   I   S   T   T   E   K   P   M   N    244
TCC AGG AGA CCT TCC ATC TTA CCC ACA AAC AAA ATA TCT ACA ACT GAA AAG CCT ATG AAT    794

 I   T   A   S   P   E   G   L   S   P   P   I   G   F   A   H   Q   H   Y   A    264
ATC ACT GCC TCT CCA GAG GGG CTG AGC CCT CCA ATT GGT TTT GCT CAT CAG CAC TAT GCC    854

 K   G   N   L   V   R   I   C   L   G   A   T   I   I   I   I   L   L   G   L    284
AAG GGG AAT CTG GTC CGG ATA TGC CTT GGT GCC ACG ATT ATA ATA ATT TTG TTG GGG CTT    914

 L   A   E   D   W   H   S   R   K   K   C   L   Q   H   R   M   R   A   L   Q    304
CTA GCA GAG GAT TGG CAC AGT CGG AAG AAA TGC CTG CAA CAC AGG ATG AGA GCT TTG CAA    974

 R   P   L   P   P   L   P   L   A   *                                           314
AGG CCA CTA CCA CCC CTC CCA CTG GCC TAG                                         1004

AAATAACTTGGCTTTCAGCAGAGGGATTGACCAGACATCCATGCACAACCATGGACATCACCACTAGAGCCACAGACAT 1083
GGACATACTCAAGAGTGGGGAGGTTATATAAAAAAATGAGTGTGGAGAATAAATGCAGAGCCAACAAGGTGAAAAAAAA 1162
A                                                                               1163
```

FIG.6



MSPASPTFFCIGLCVLQVIQTQSGPLPKPSLQAQPSSLVPLGQSVILRCQGPPDVDLYRL
EKLKPEKYEDQDFLFIPTMERSNAGRYRCSYQNGSHWSLPSDQLELIATGVYAKPSLSAH
PSSAVPQGRDVTLKCQSPYSFDEFVLYKEGDTGPYKRPEKWYRANFPIITVTAAHSGTYR
CYSFSSSSPYLWSAPSDPLVLVVTGLSATPSQVPTEESFPVTESSRRPSILPTNKISTTE
KPMNITASPEGLSPPIGFAHQHYAKGNLVRICLGATIIIILLGLLAEDWHSRKKCLQHRM
RALQRPLPPLPLA

FIG.7

```
                10        20        30        40        50        60        70
inputs ATGACGCCCGCCCTCACAGCCCTGCTCTGCCTTGGGCTGAGTCTGGGCCCCAGGACCCGCGTGCAGGCAG
       :::.: :: ::: :::: ::    .:: :::   :::..:
       ATGTCTCCAGCC-TCAC--CC----ACTTTCTT---CTGTAT--------------------------
                10              20        30

                80        90       100       110       120       130       140
inputs GGCCCTTCCCCAAACCCACCCTCTGGGCTGAGCCAGGCTCTGTGATCAGCTGGGGGAGCCCCGTGACCAT
                               :::::::         ::::..:.::
       ------------------------TGGGCTG---------TGTGTACTGC------------------
                                               40

              150       160       170       180       190       200       210
inputs CTGGTGTCAGGGGAGCCTGGAGGCCCAGGAGTACCGACTGGATAAAGAGGGAAGCCCAGAGCCCTTGGAC
                                 :.:.:..::                ::.: :::::    :::
       --------------------------AAGTGATCC---------------AAACACAGAG----TGG--
                                 50                       60            70

              220       230       240       250       260       270       280
inputs AGAAATAACCCACTGGAACCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGACAGAGCACCATGCGG
              ::::::    :::     ::::          ::.::: :::: :
       --------CCCACT----CCC-----CAAG---------CCTTCCC-TCCAGG--------------
                         80                    90

              290       300       310       320       330       340       350
inputs GGAGATACCGCTGCCACTATTACAGCTCTGCAGGCTGGTCAGAGCCCAGCGACCCCCTGGAGCTGGTGAT
              : :.:::                        :::. ::::.: :. :::::::. :.:
       --------CTCAGCC----------------------CAGTTCCCTG-GTACCCCTGGGTCAG-----
              100                           110       120

              360       370       380       390       400       410       420
inputs GACAGGATTCTACAACAAACCCACCCTCTCAGCCCTGCCCAGCCCTGTGGTGGCCTCAGGGGGGAATATG
        .:::  :: :.:                                ::.::::  :  :::::.
       -TCAG--TTATTC------------------------------TGAGGTG-C--CAGGGA--------
       130                                         140       150

              430       440       450       460       470       480
inputs ACCCTCC-GATGTGGCTCACAGAAGGGATATCACCATTTTGTTCTGATGAAGGAAGGAGAACACCAGCTC
         ::::: :::::::         :   ::::::.::.  . ...::::..
       --CCTCCAGATGTGG--------ATTTATATCGCCTGGAGAAACTGAAA-------------------
            160               170       180       190

    490       500       510       520       530       540       550
inputs CCCCGGACCCTGGACTCACAGCAGCTCCACAGTGGGGGGTTCCAGGCCCTGTTCCCTGTGGGCCCCGTGA
         :::::      ::                 :::. :..:.:: ::.:    ::: ::         :.:
       --CCGGA-----GA---------------AGTATGAAGATCAAGAC---TTTCTCTT-------CATT-
                                     200       210       220
```

FIG. 8A

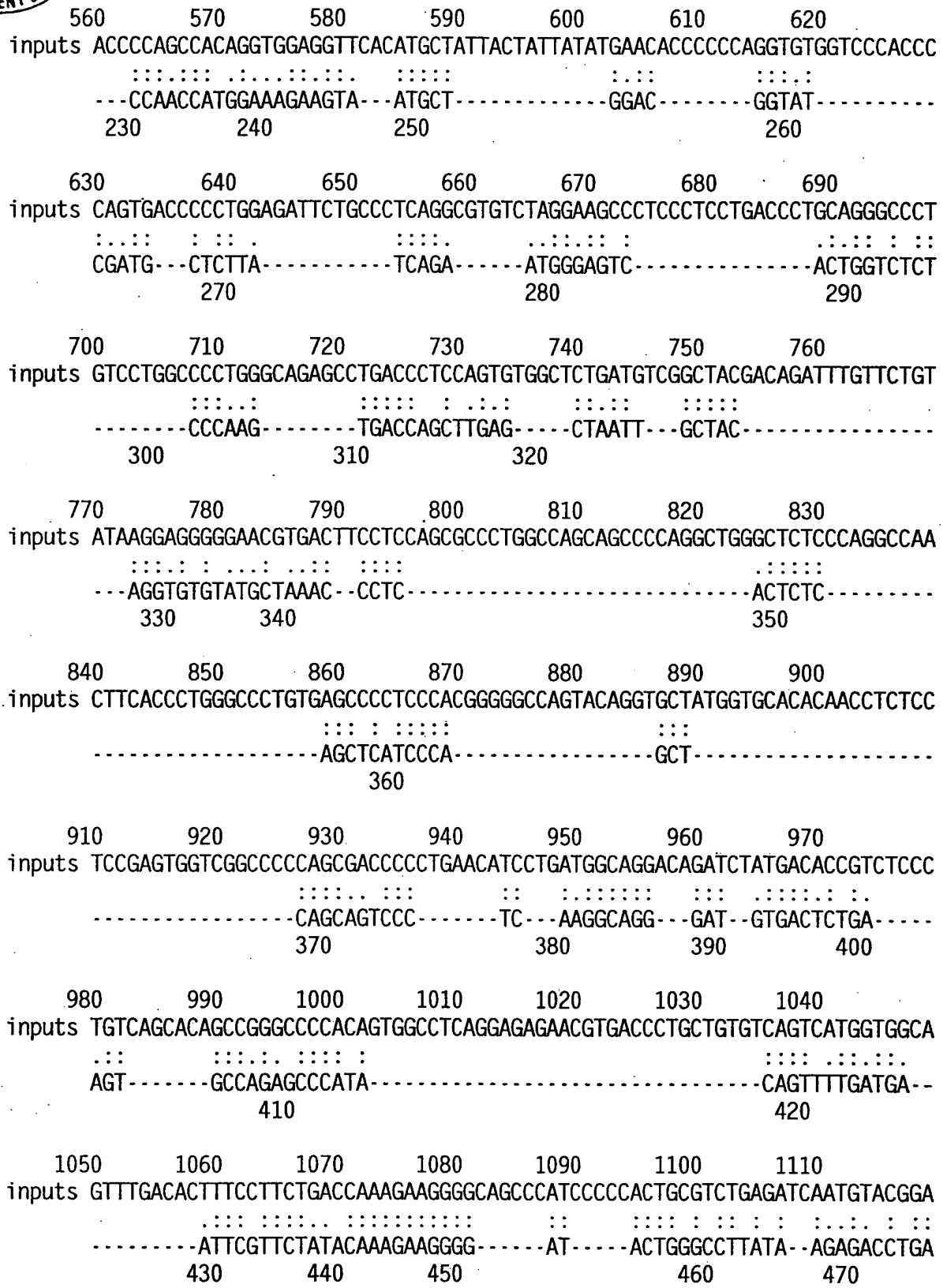


FIG.8B

```
     1120       1130       1140       1150       1160       1170       1180
inputs GCTCATAAGTACCAGGCTGAATTCCCCATGAGTCCTGTGACCTCAGCCCACGCGGGGACCTACAGGTGCT
       :   :...:::::.::: .:.:::::::::: :   :.:::::  :.:: :::.  ::::: ::: :::: :
       G--AAATGGTACCGGGCCAATTTCCCCATCATCACAGTGACTGCTGCTCACAGTGGGACGTACCGGTGTT
          480        490        500        510        520        530        540

     1190       1200       1210       1220       1230       1240       1250
inputs ACGGCTCATACAGCTCCAACCCCCACCTGCTGTCTTTCCCCAGTGAGCCCCTGGAACTCATGGTCTCAGG
       ::.:::  : ::::::  .  ::  :::::  :::.  ::: ::::: :: ::.:..:: .:::: .:.::
       ACAGCTTCTCCAGCTCATCTCCATACCTGTGGTCAGCCCCGAGTGACCCTCTAGTGCTTGTGGTTACTGG
          550        560        570        580        590        600        610

     1260       1270       1280       1290       1300       1310       1320
inputs ACACTCTGGAGGCTCCAGCCTCCCACCCACAGGGCCGCCCTCCACACCTGGTCTGGGAAGATACCTGGAG
       ::.::::::      :::  :::::: ::  :::   .::::.        ::. .:... ..:.::::
       ACTCTCTG------CCA--CTCCCAGCC--AGGT--ACCCAC-------GGA-AGAATCATTTCCTG---
          620              630             640              650        660

     1330       1340       1350       1360       1370       1380       1390
inputs GTTTTGATTGGGGTCTCGGTGGCCTTCGTCCTGCTGCTCTTCCTCCTCCTCTTCCTCCTCCTCCGACGTC
          :::          :.:.. :::    ::.: .:  :::::.      :::: :    ::.: .::..
       ----TGA---------CAGAATCCT----CCAGGAGACCTTCCA-----TCTTAC----CCACAAACAAA
                  670            680            690            700

     1400       1410       1420       1430       1440       1450       1460
inputs AGCGTCACAGCAAACACAGGACATCTGACCAGAGAAAGACTGATTTCCAGCGTCCTGCAGGGGCTGCGGA
       :   : .:..:::   :.:.:   ...::...::::...:  : : ::. : :::.: ::::::::
       A---TATCTACAA---CTGAA----AAGCCTATGAATATC--ACTGCCT-C-TCCAG-AGGGGCTG----
     710          720          730          740          750

     1470       1480       1490       1500       1510       1520       1530
inputs GACAGAGCCCAAGGACAGGGGCCTGCTGAGGAGGTCCAGCCCAGCTGCTGACGTCCAGGAAGAAAACCTC
          :::::.           ::     :. .:::  .:: :: :.::.                    :
       -----AGCCCT----------CC-----AATTGGTTTTGCTCATCAGCA------------------C
            760                        770       780

     1540       1550       1560       1570       1580       1590       1600
inputs TATGCTGCCGTGAAGGACACACAGTCTGAGGACAGGGTGGAGCTGGACAGTCAGAGCCCACACGATGAAG
       :::::                              ::.:: :.: ::::.:              ::.. :.:
       TATGC--------------------------CAAGGGGAATCTGGTC-------------CGGATATG
        790                                  800                      810

     1610       1620       1630       1640       1650       1660       1670
inputs ACCCCCAGGCAGTGACGTATGCCCCGGTGAAACACTCCAGTCCTAGGAGAGAAATGGCCTCTCCTCCCTC
          :: .::          :::: ::.:              :: .: :.....::
       ---CCTTGG----------TGCCACGAT--------------TATAATAATTTTGT------------
           820                830                      840

     1680       1690       1700       1710       1720       1730       1740
inputs CTCACTGTCTGGGGAATTCCTGGACACAAAGGACAGACAGGTGGAAGAGGACAGGCAGATGGACACTGAG
             :::::.:  ::.:   ::.::::.:.:              :::: :.::.:.:     :
       ---------TGGGGCTT--CTAG---CAGAGGATTGGC-----------ACAGTCGGAAGAA-----AT
                  850            860                  870        880
```

FIG.8C

```
    1750       1760       1770       1780       1790       1800       1810
inputs GCTGCTGCATCTGAAGCCTCCCAGGATGTGACCTACGCCCAGCTGCACAGCTTGACCCTTAGACGGAAGG
       ::  ::::::.:.         ::::::::.::                  :::: .:         .::::
       GC--CTGCAACA---------CAGGATGAGA-----------------GCTTTGC---------AAAGG
             890                900                          910

    1820       1830       1840       1850       1860       1870       1880
inputs CAACTGAGCCTCCTCCATCCCAGGAAGGGGAACCTCCAGCTGAGCCCAGCATCTACGCCACTCTGGCCAT
       : :::.     ::.::                :::::                        :.:::::::
       CCACTA-----CCACC---------------CCTCC----------------------CACTGGCC--
         920                           930

    1890
inputs CCAC
```

FIG. 8D

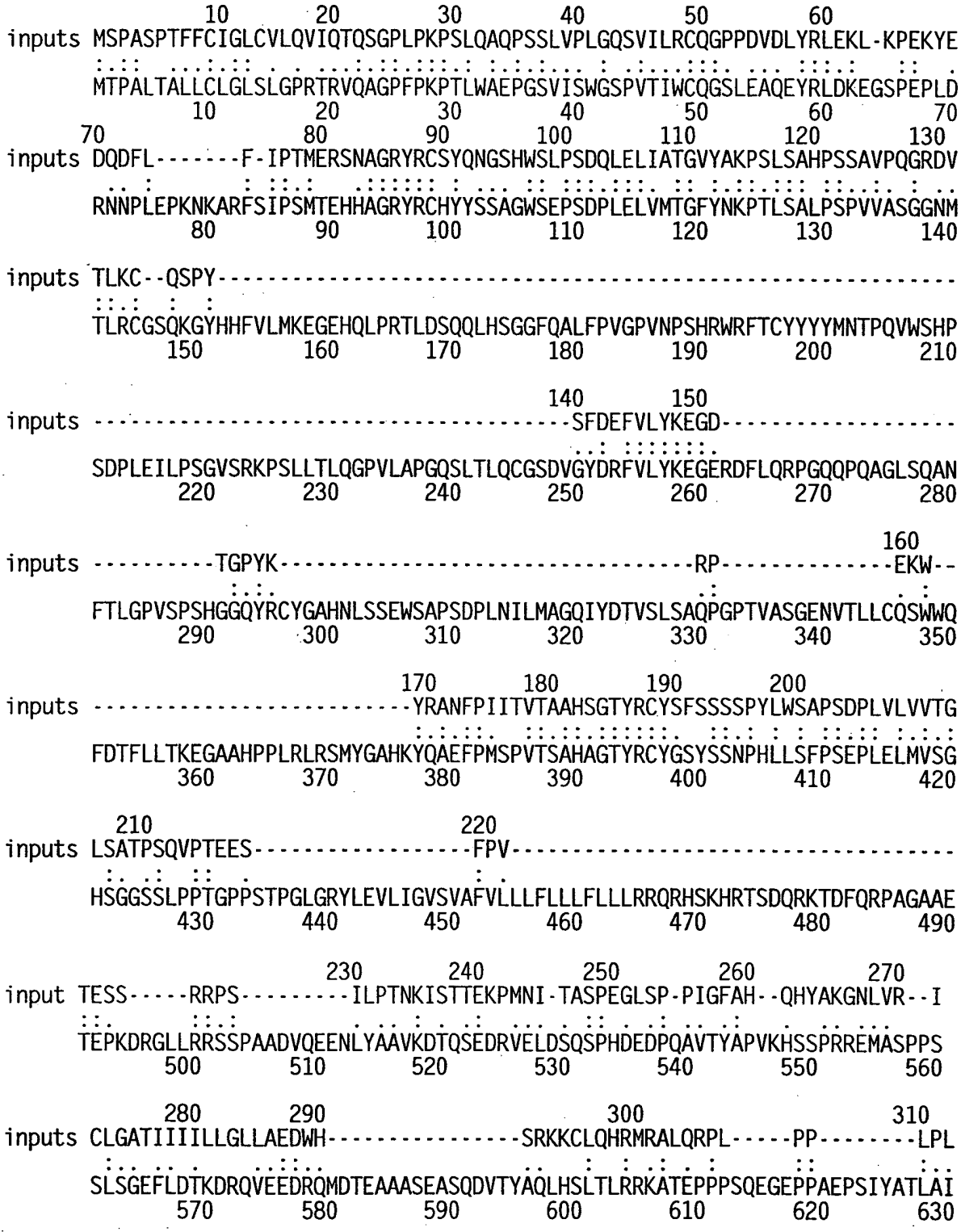


FIG. 9

```
                *->GesvtLtCsvsgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
                   G+sv L+C+        ++v  y +  k ++        +++e +
mT268     42    GQSVILRCQGP------PDVDLY-RLEKlKP--------EKYEDQ-- 71

                   anlsegrfsissltLtissvekeDsGtYtCvv<-*
                                L i + e++++G Y+C
mT268     72    ------------DFLFIPTMERSNAGRYRCSY    91
```

FIG.10A

```
                *->GesvtLtCsvsgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
                   G +vtL C++        ++  y k+g++ +       Y+r+e   +
mT268     128   GRDVTLKCQSP---YSFDEFVLY-KEGDtGP-------YKRPEKW-Y 162

                   anlsegrfsissltLtissvekeDsGtYtCvv<-*
                   +             ++i++v++  sGtY+C
mT268     163   RA----------NFPIITVTAAHSGTYRCYS    183
```

FIG.10B

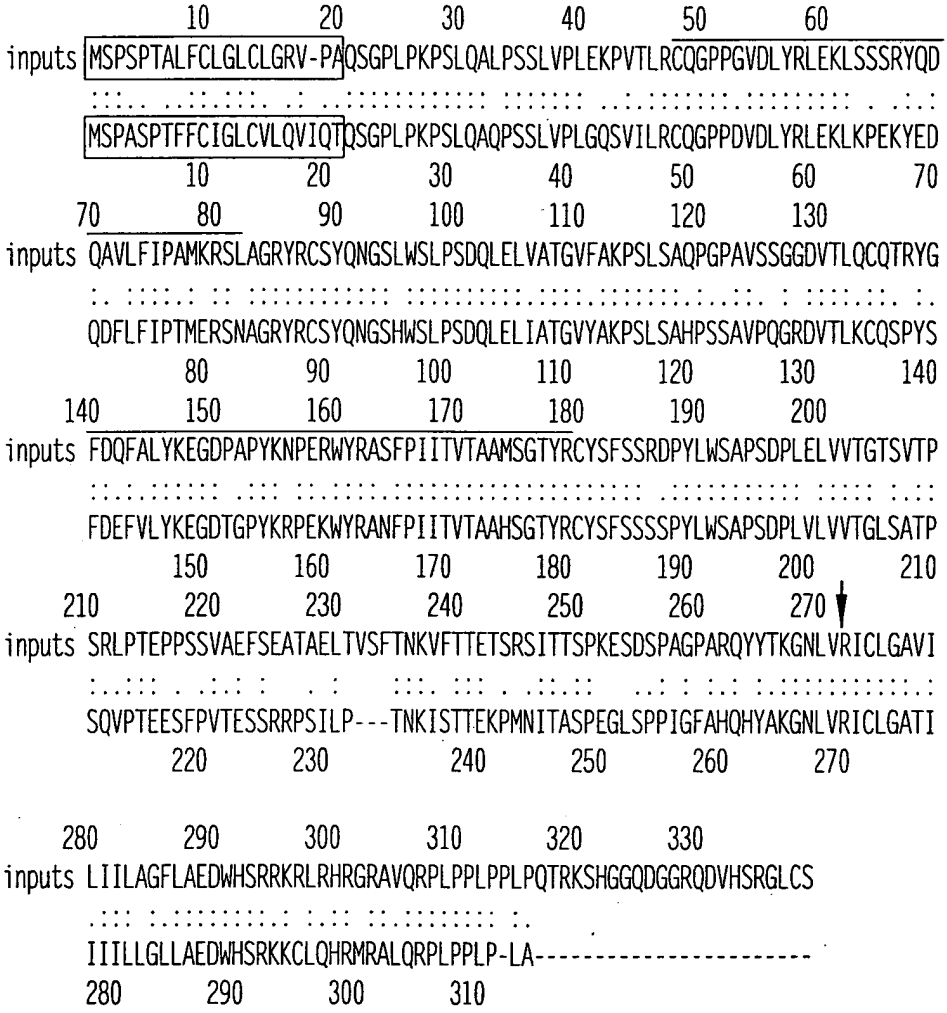


FIG.11

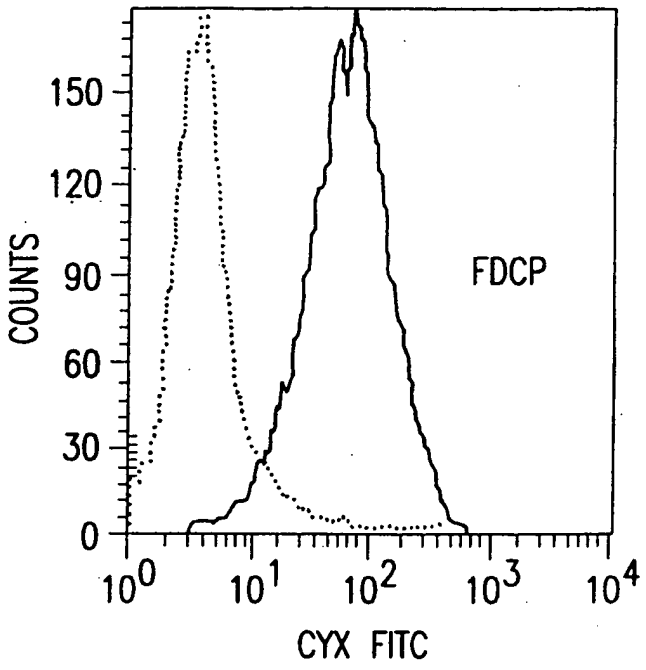


FIG.15A

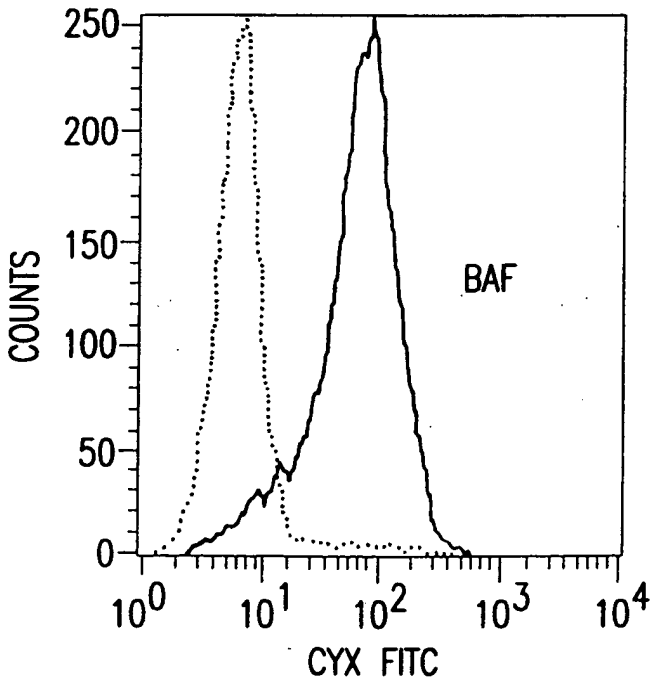


FIG.15B

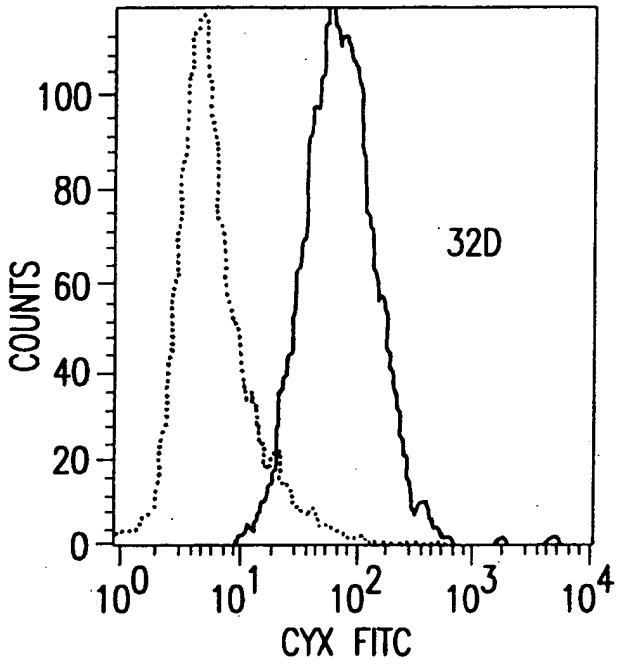


FIG.15C

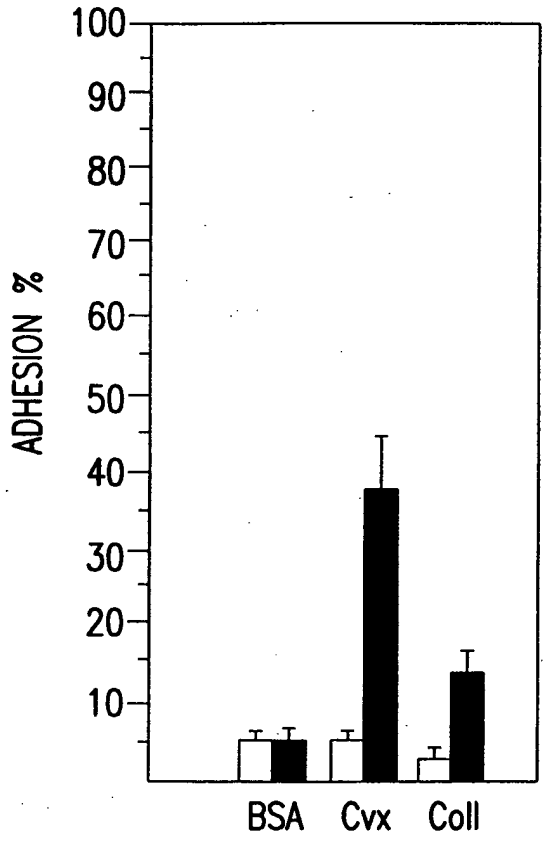


FIG.16A

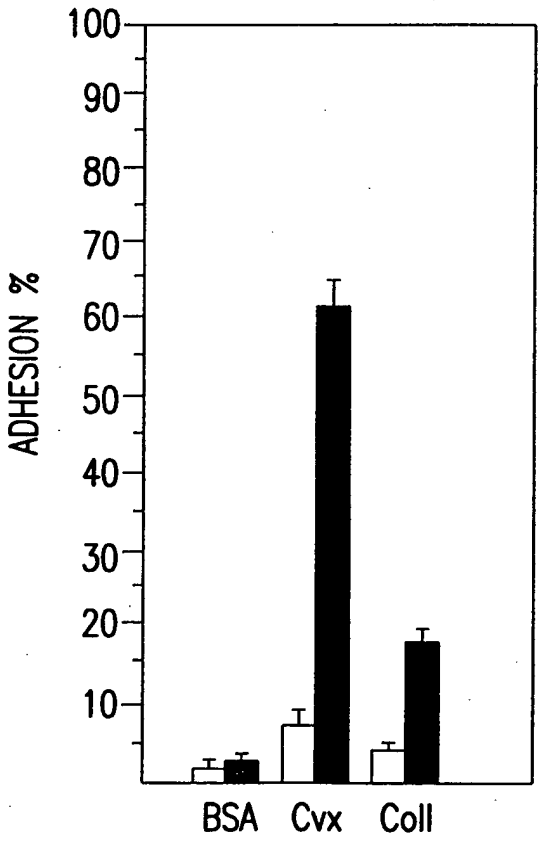


FIG.16B

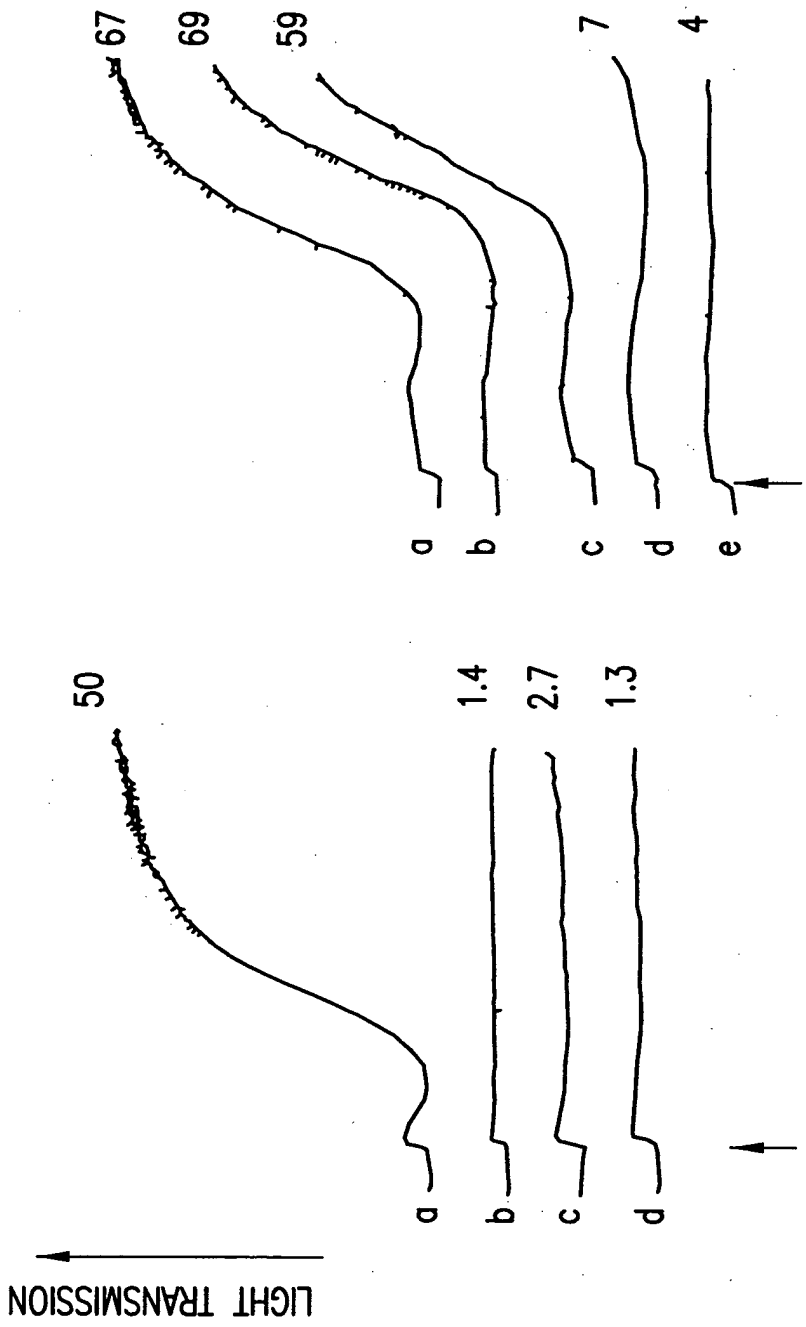


FIG.18B

FIG.18A

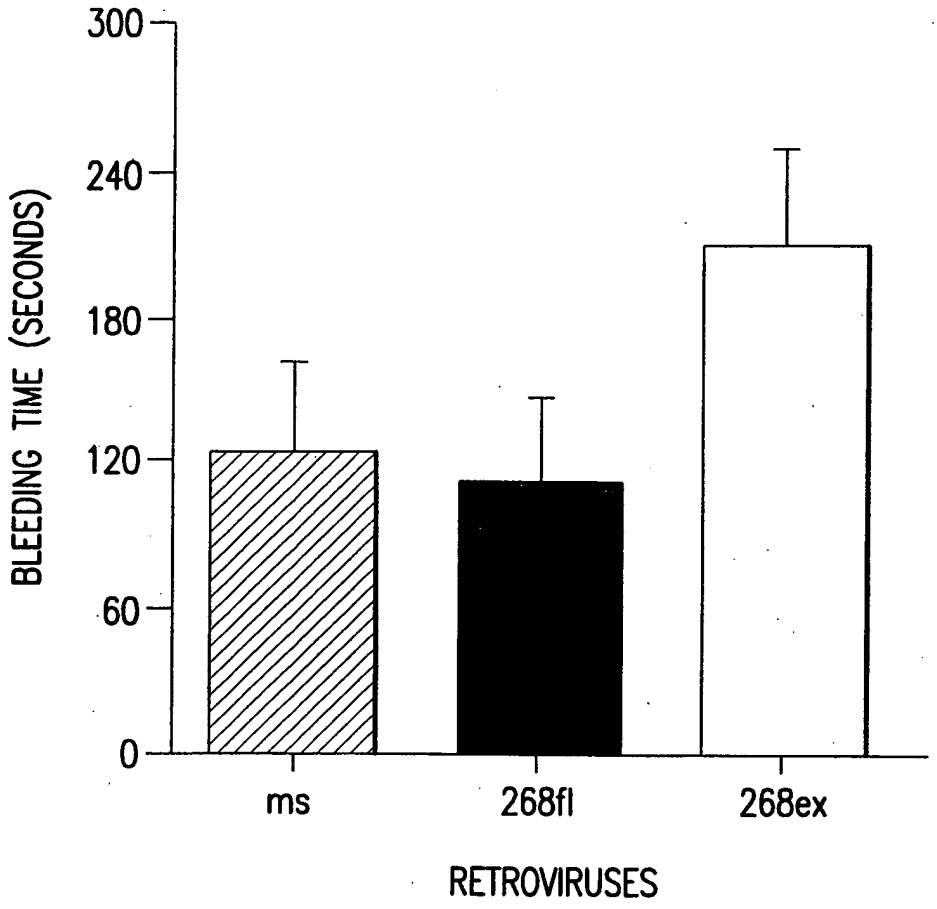


FIG.19

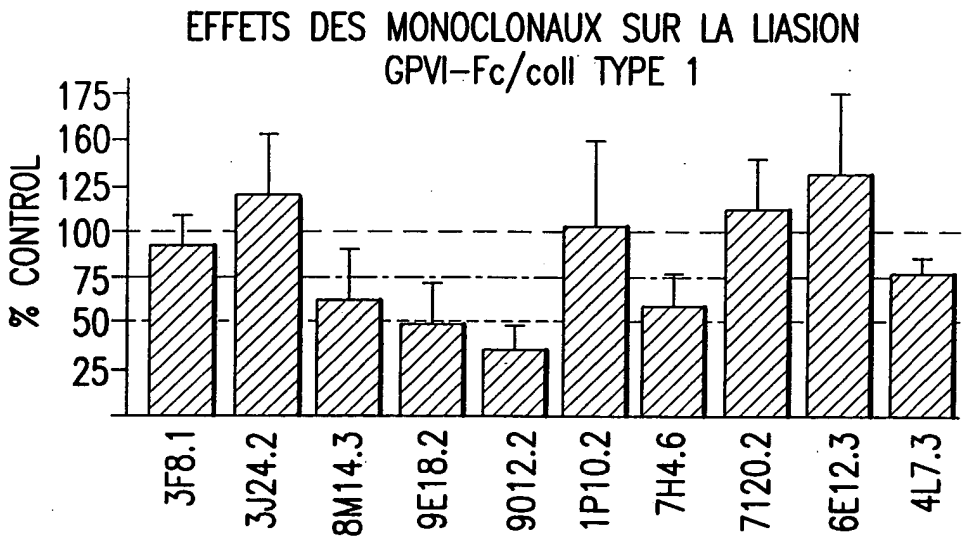


FIG.20

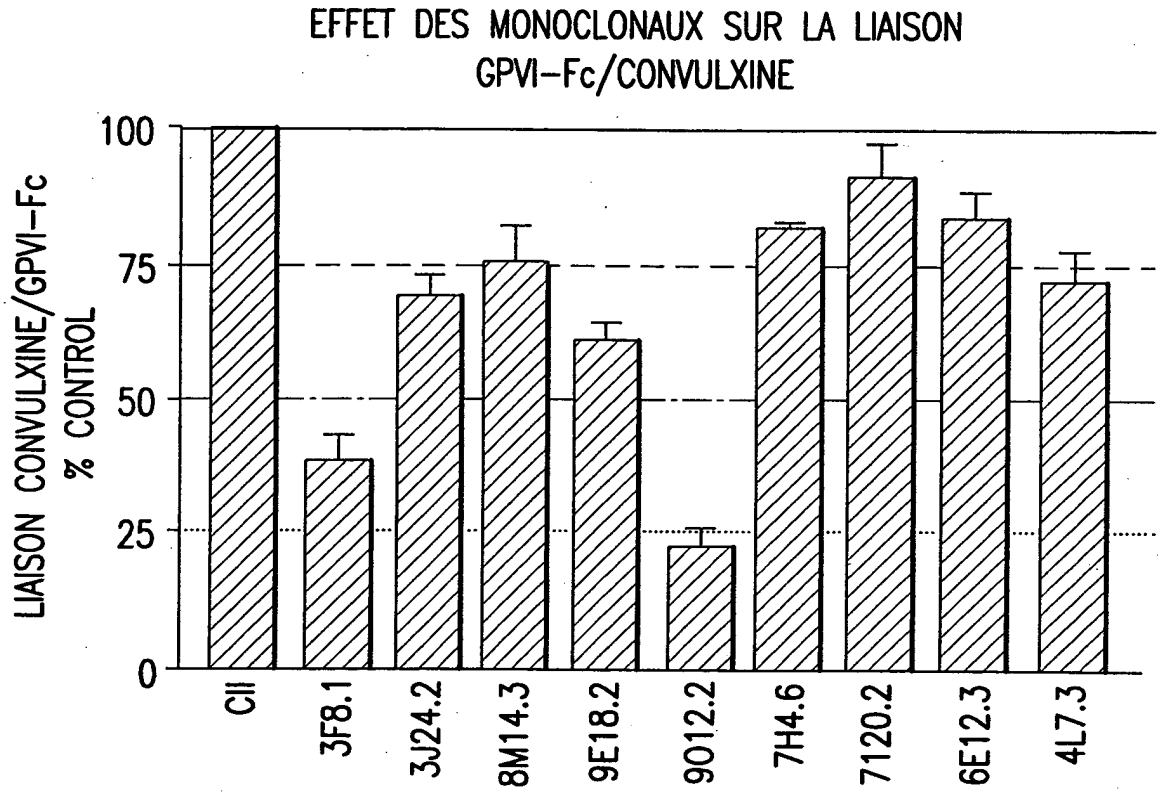


FIG.21

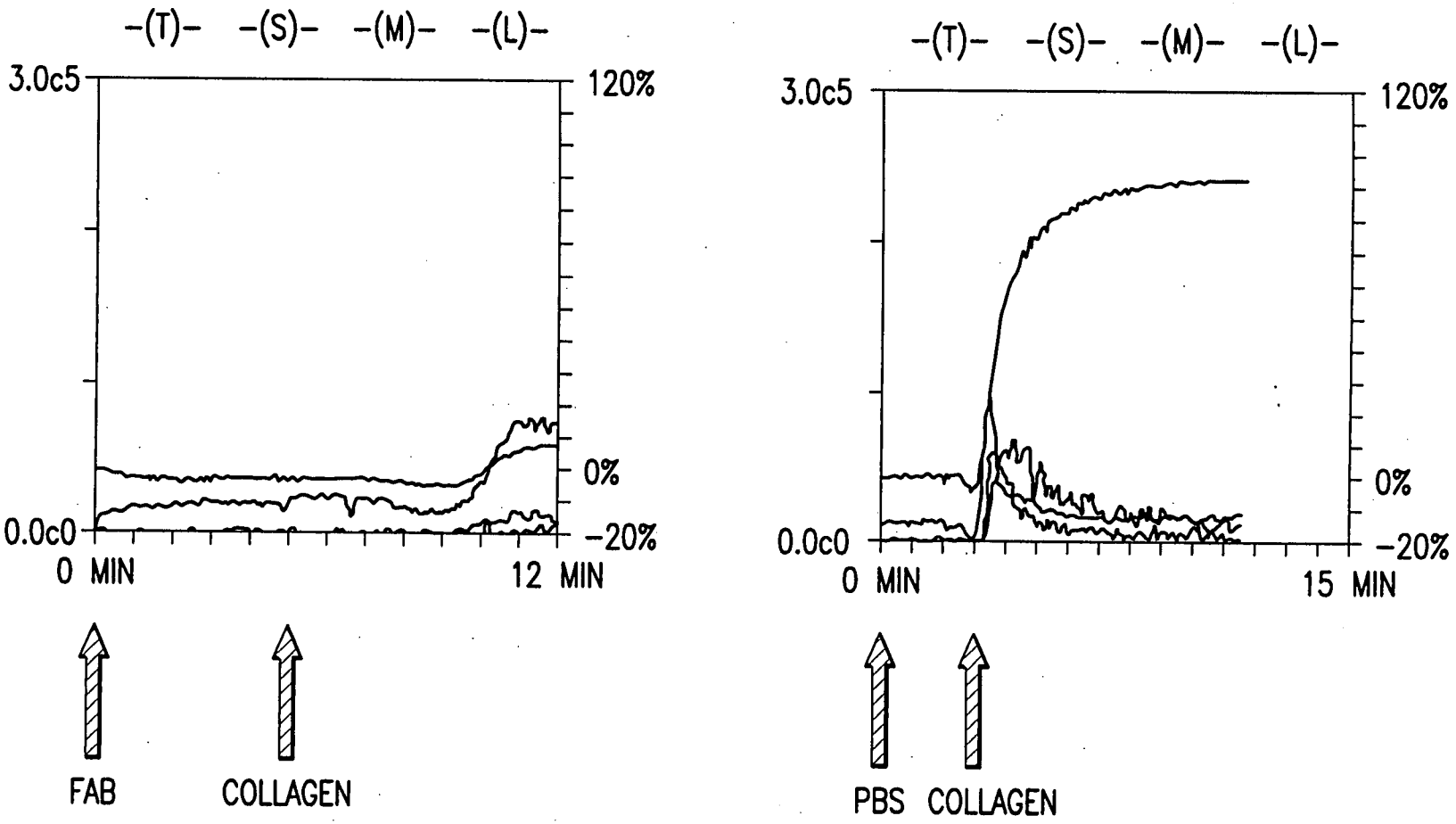


FIG.22

Serial No.: 09/829,495
Inventor(s): BUSFIELD ET AL.
Title: "GLYCOPROTEIN VI AND USES THEREOF"

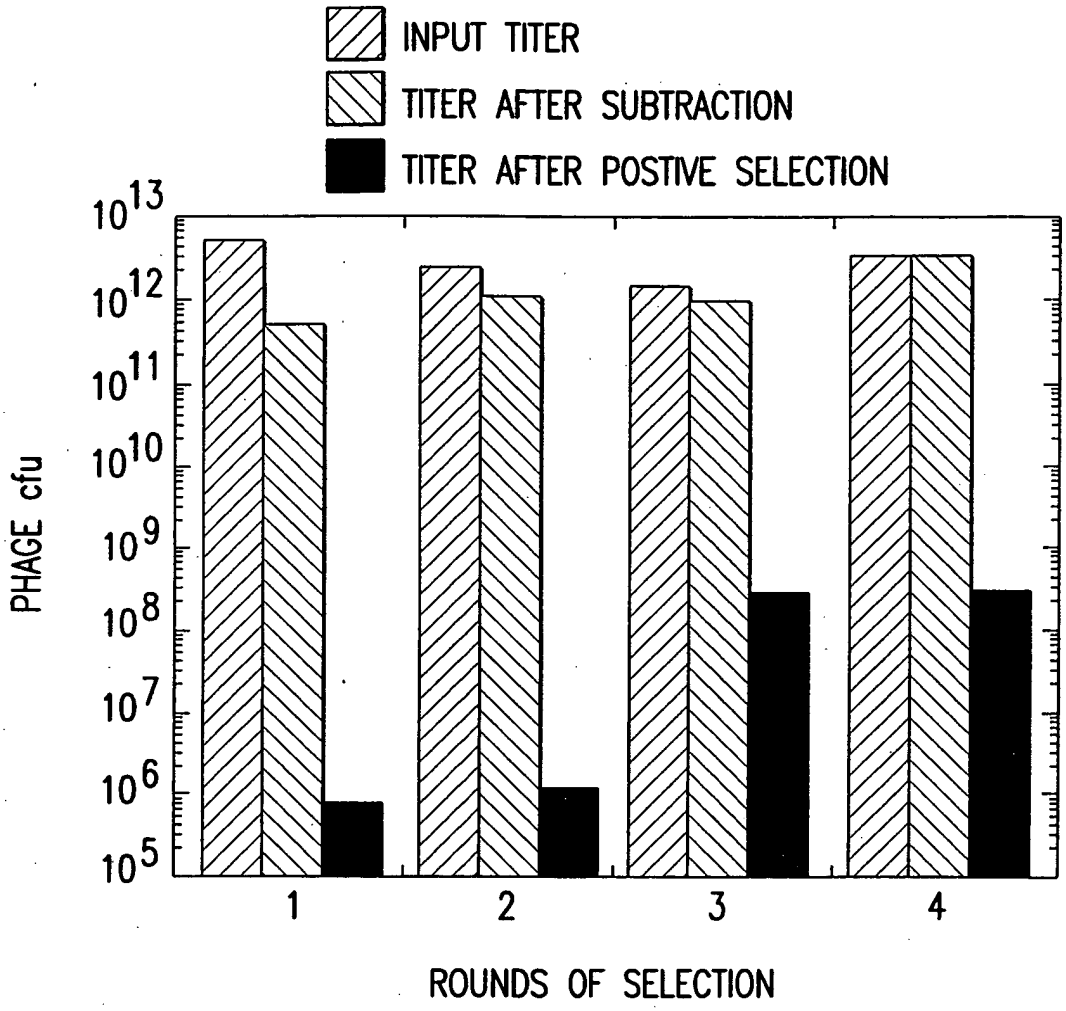


FIG.23

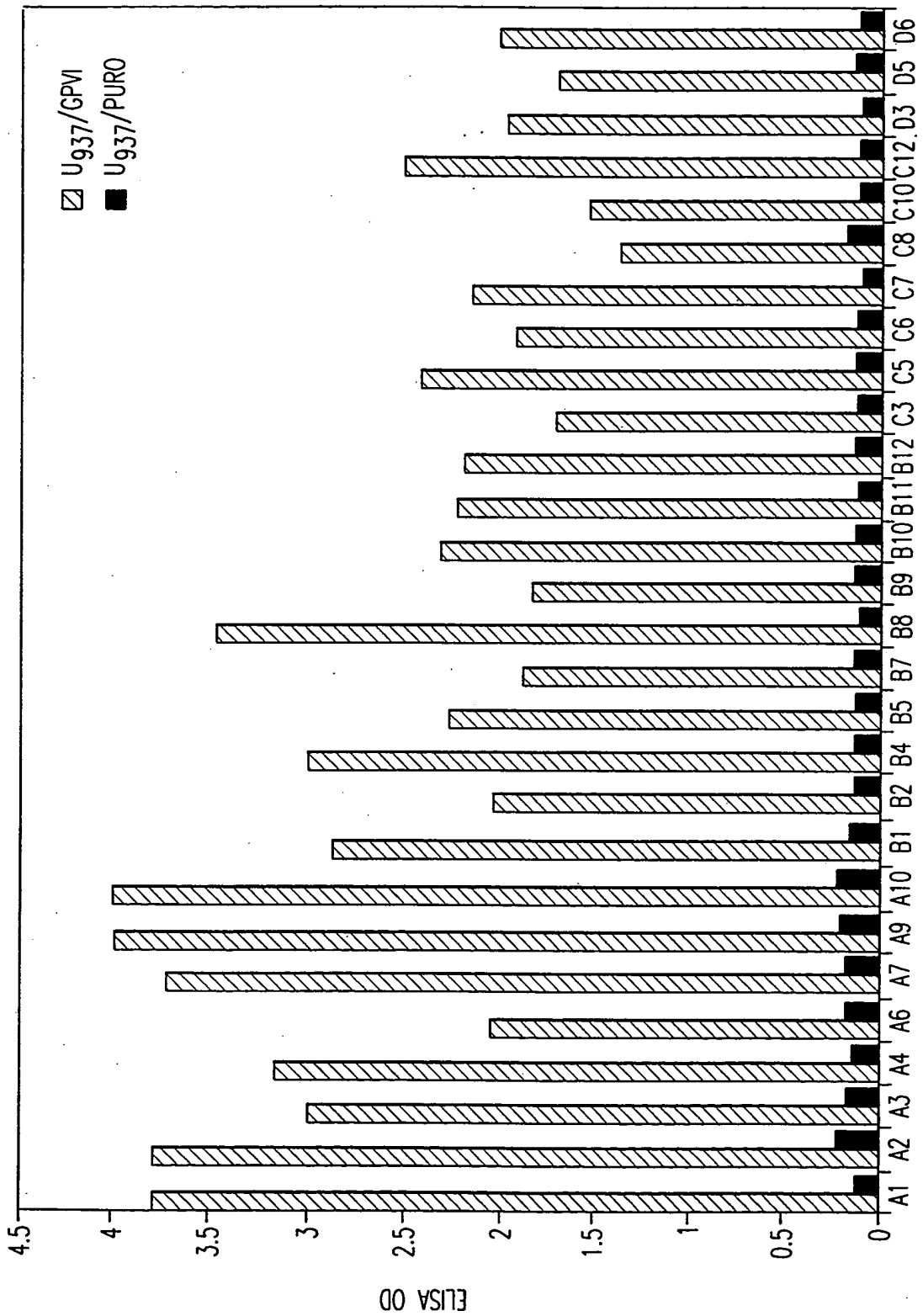


FIG.24A

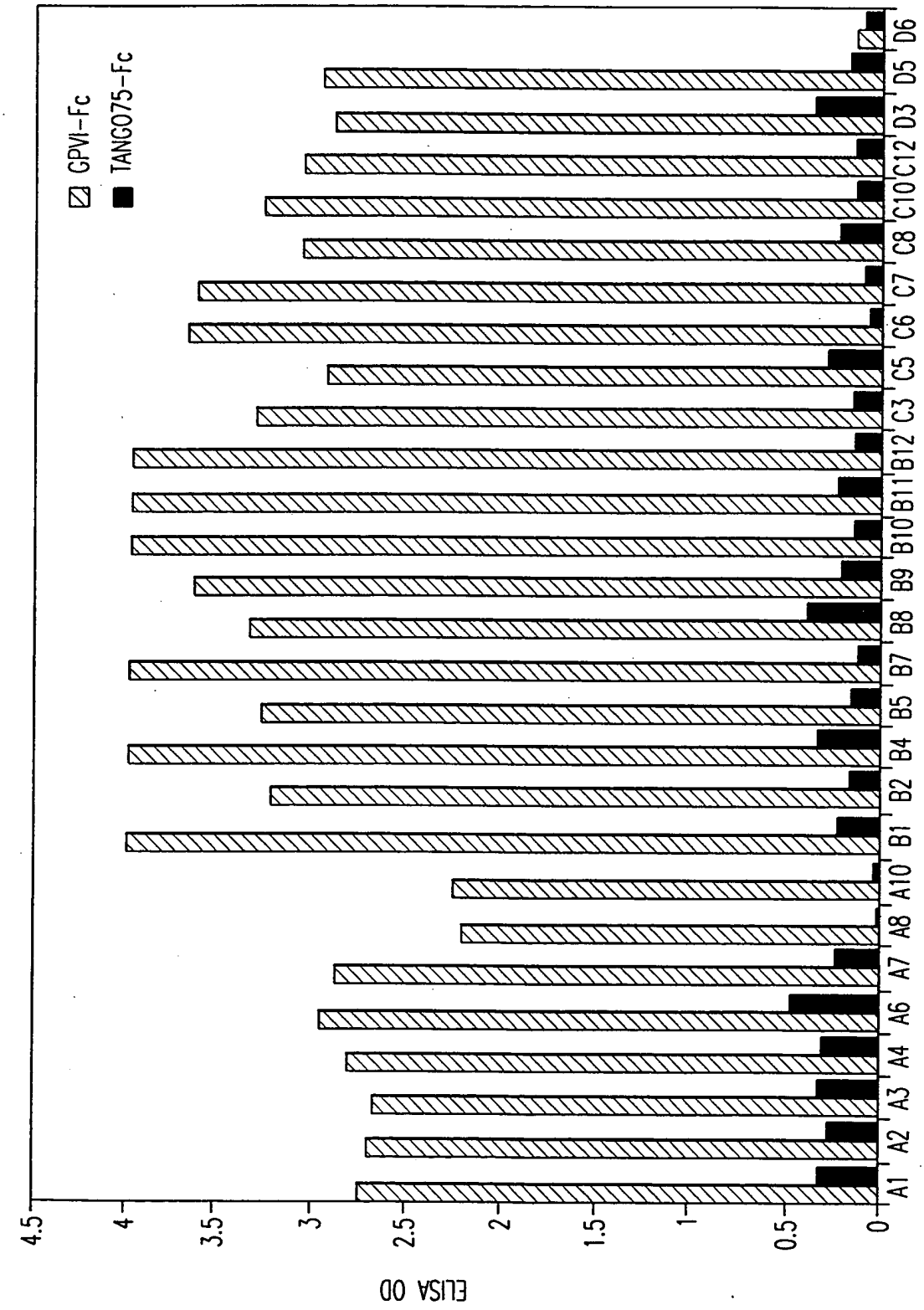


FIG.24B

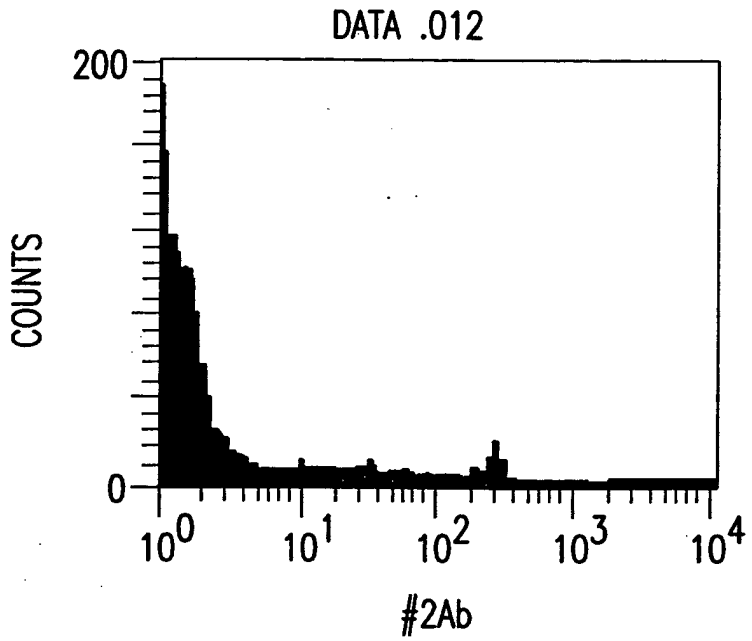


FIG.26A

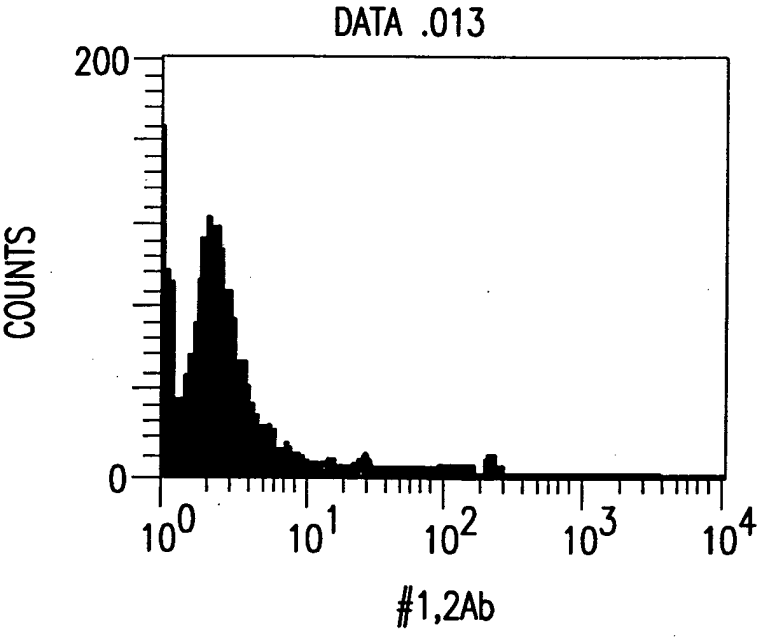


FIG.26B

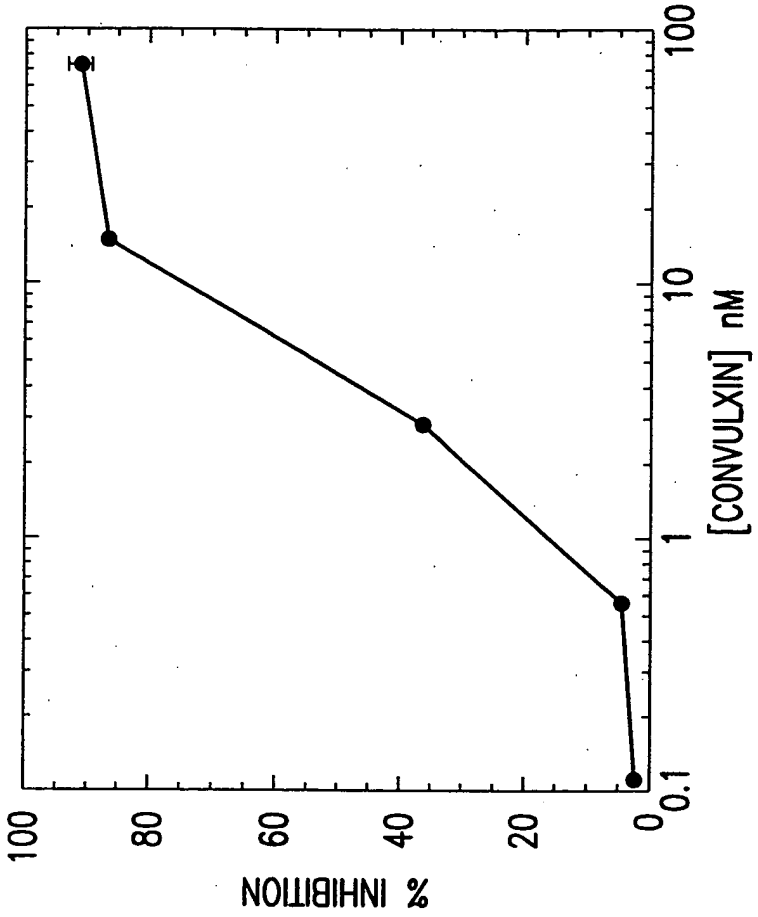


FIG.29B

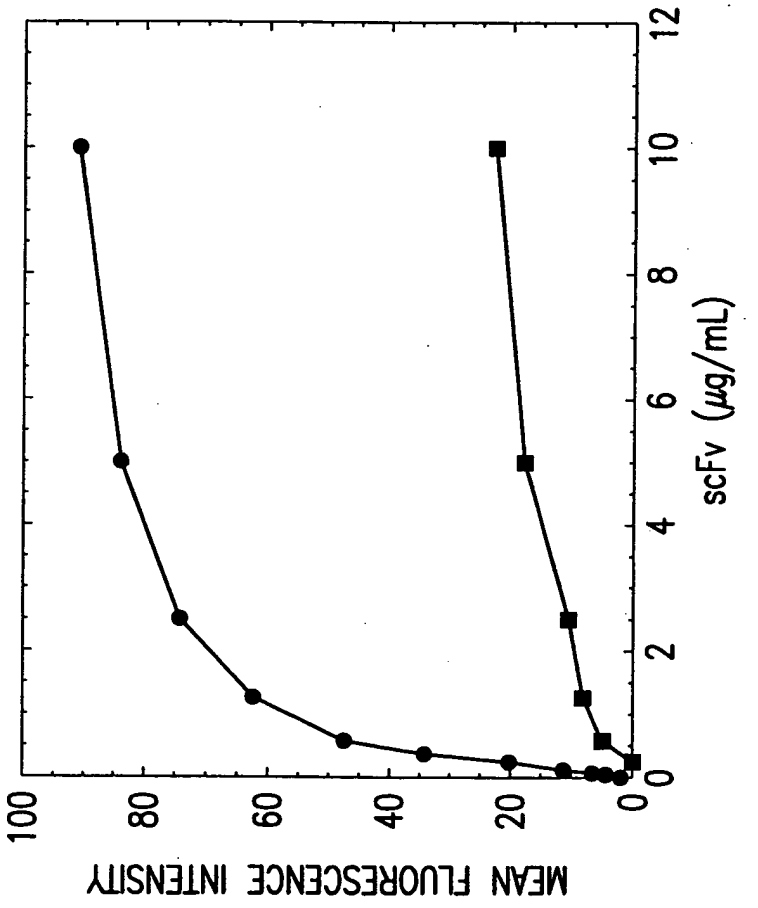


FIG.29A

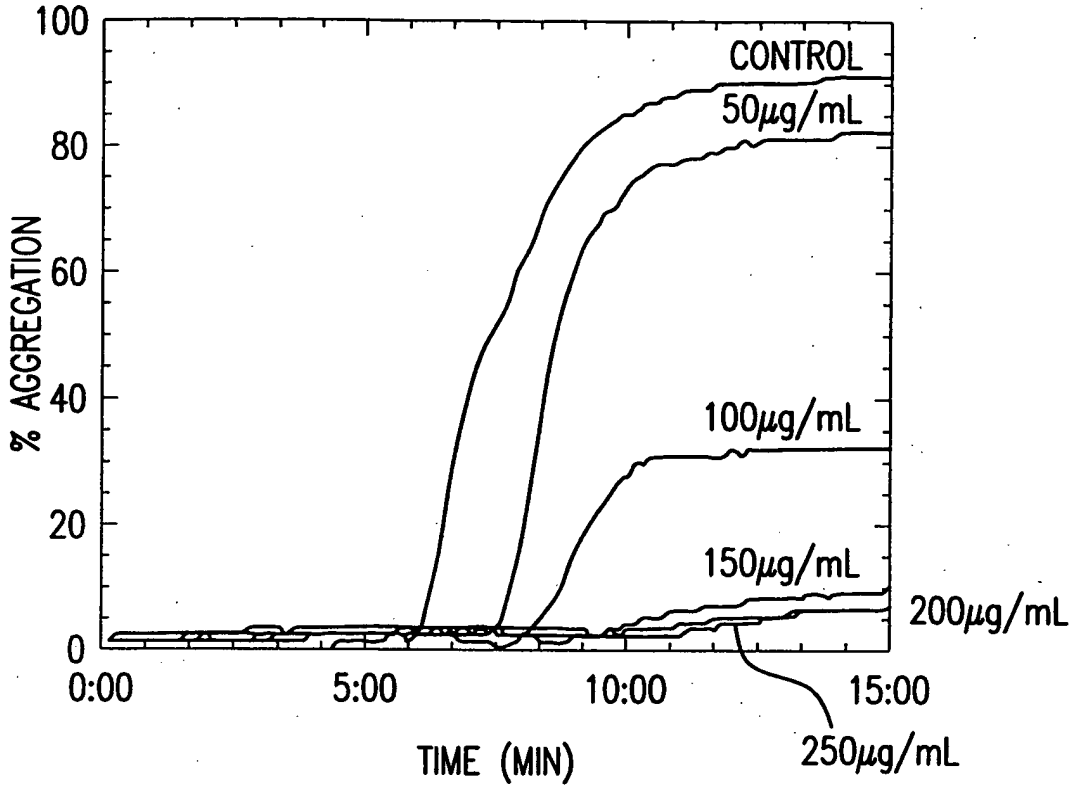


FIG.30A

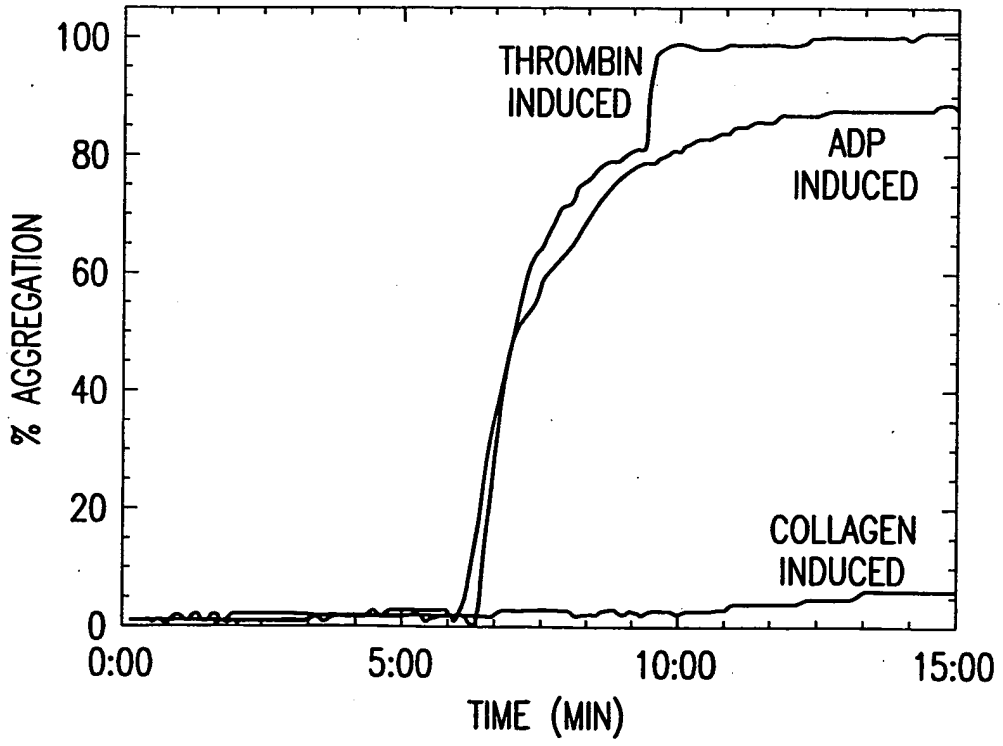


FIG.30B

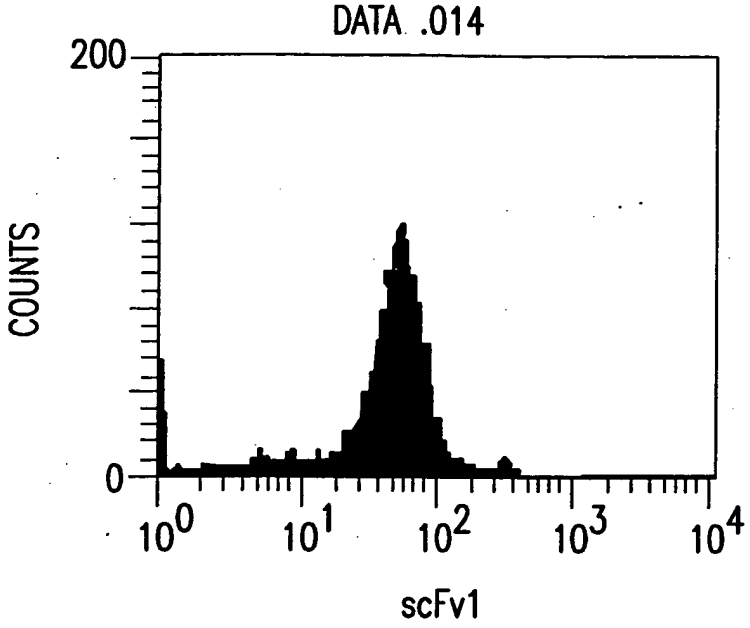


FIG.26C

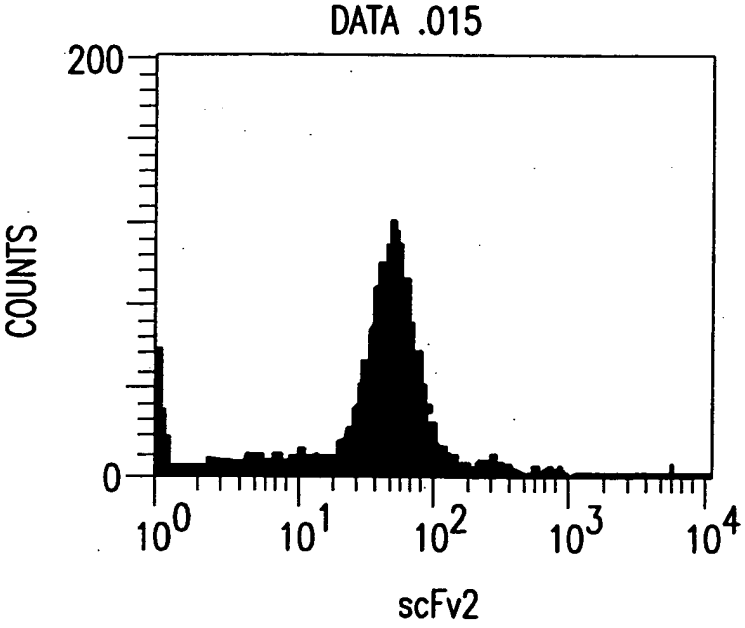
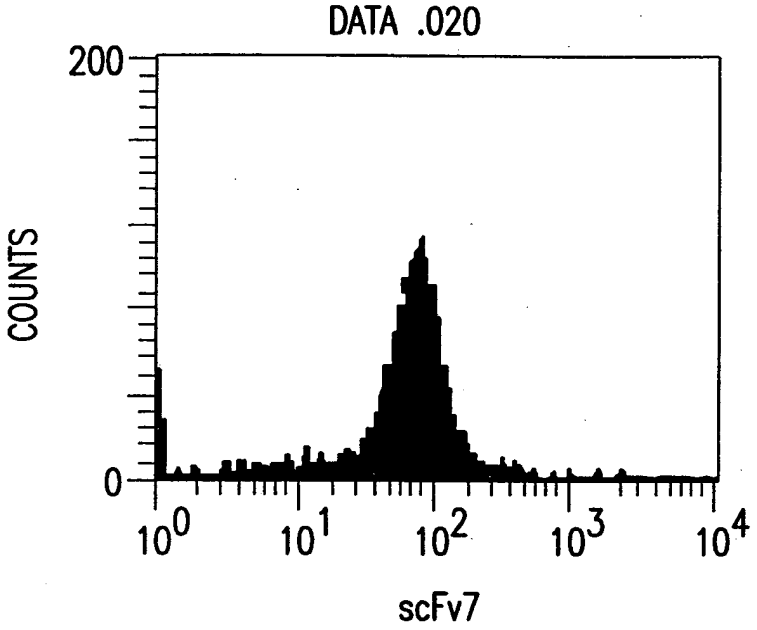


FIG.26D



scFv1:A4
scFv2:B4
scFv3:A9
scFv4:C4
scFv5:C9
scFv6:C10
scFv7:A10

FIG.26I

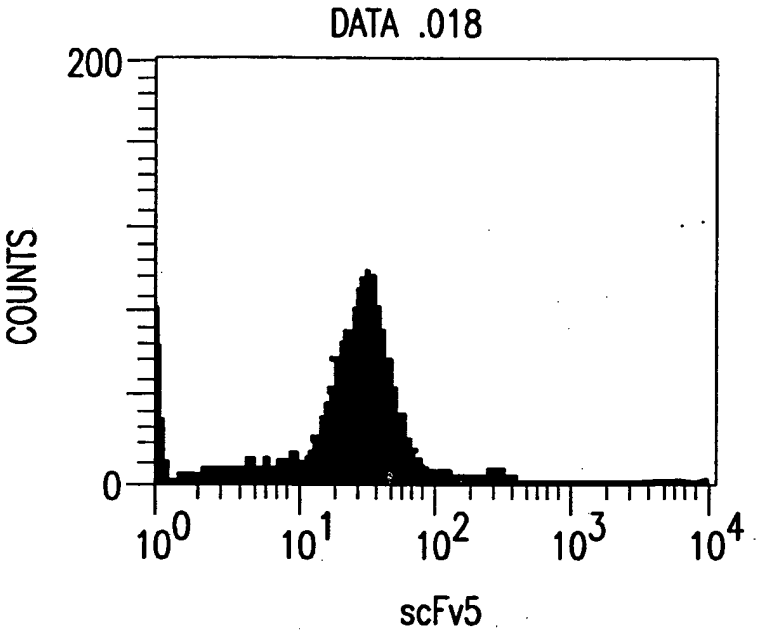


FIG.26G

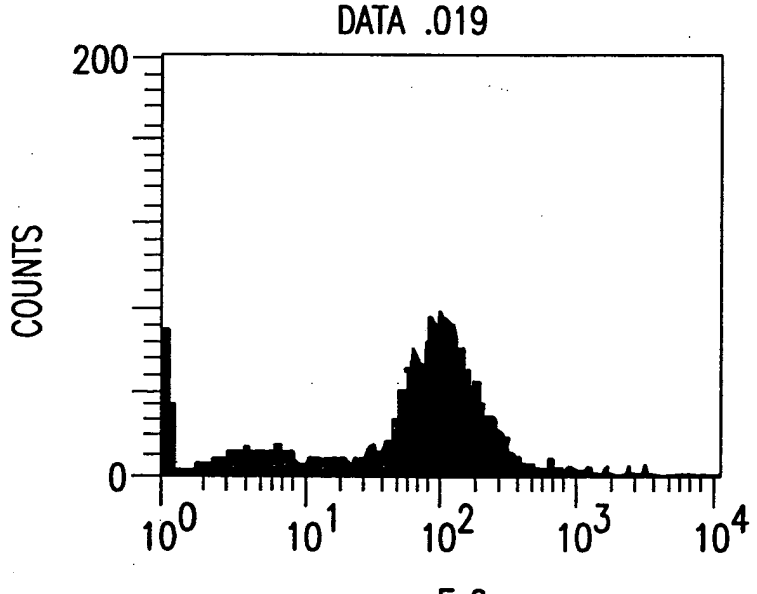


FIG.26H

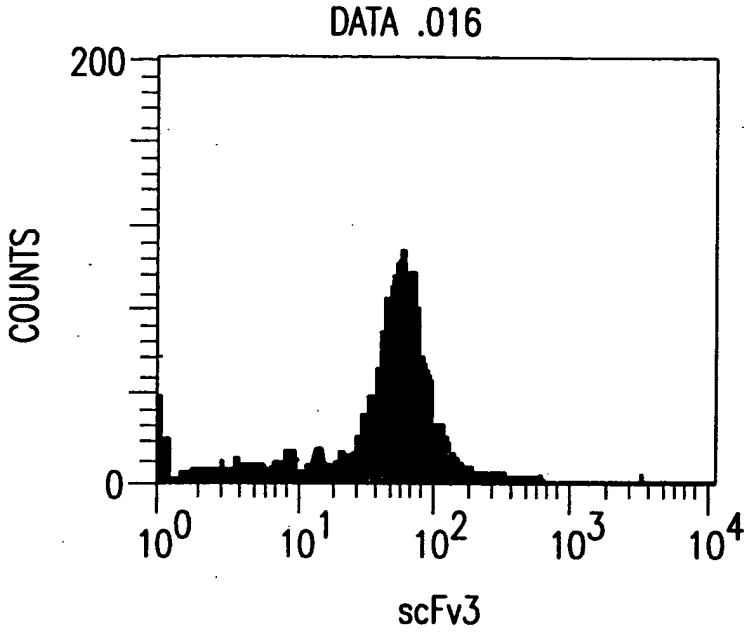


FIG.26E

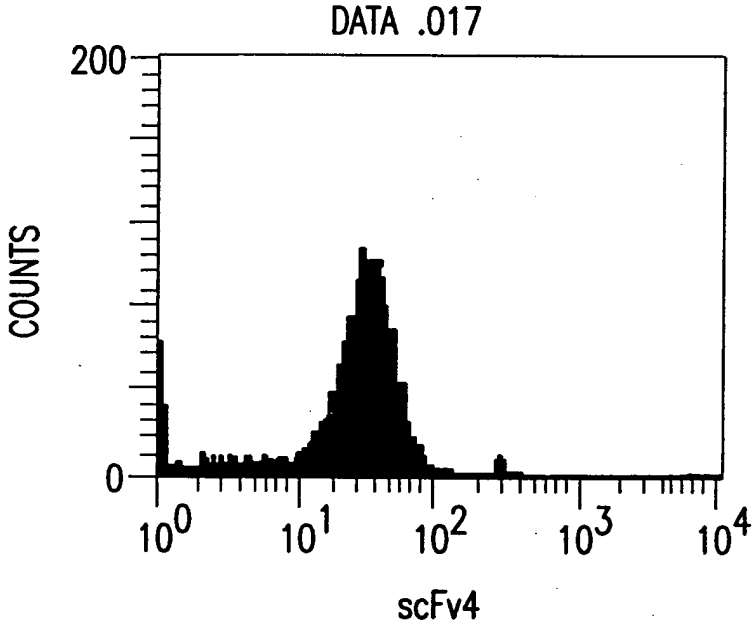


FIG.26F

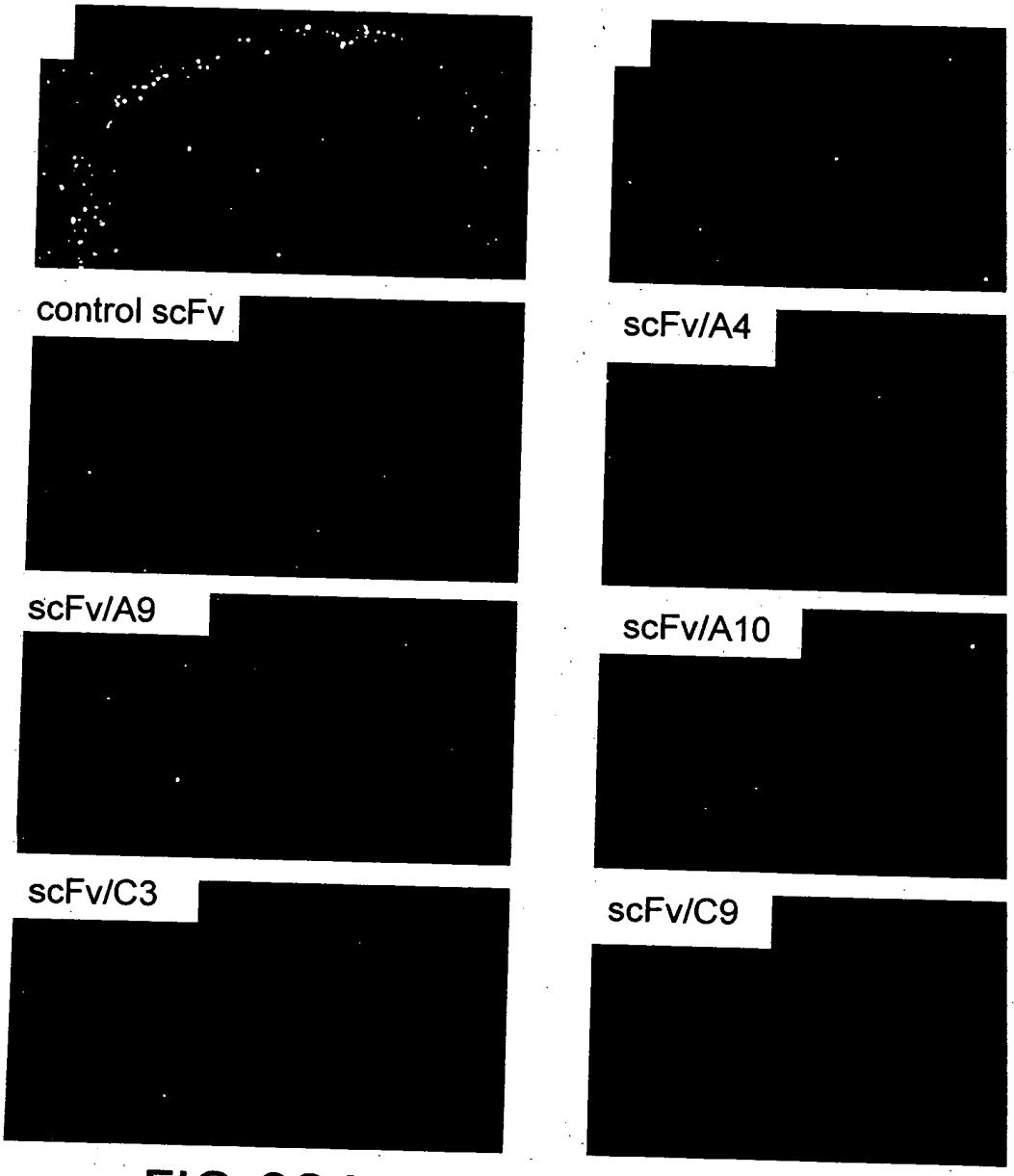


FIG.28A

FIG.28B

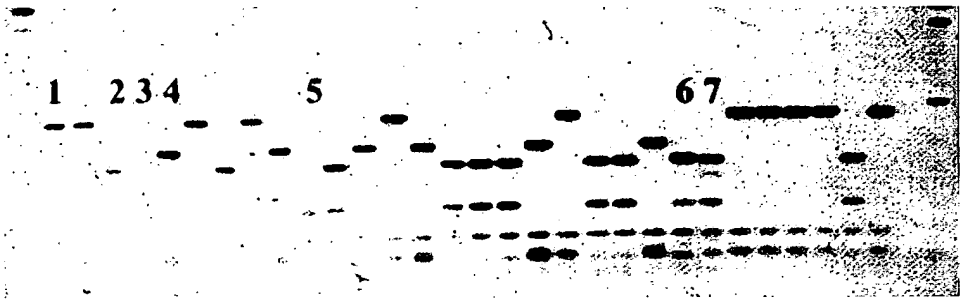


FIG.25

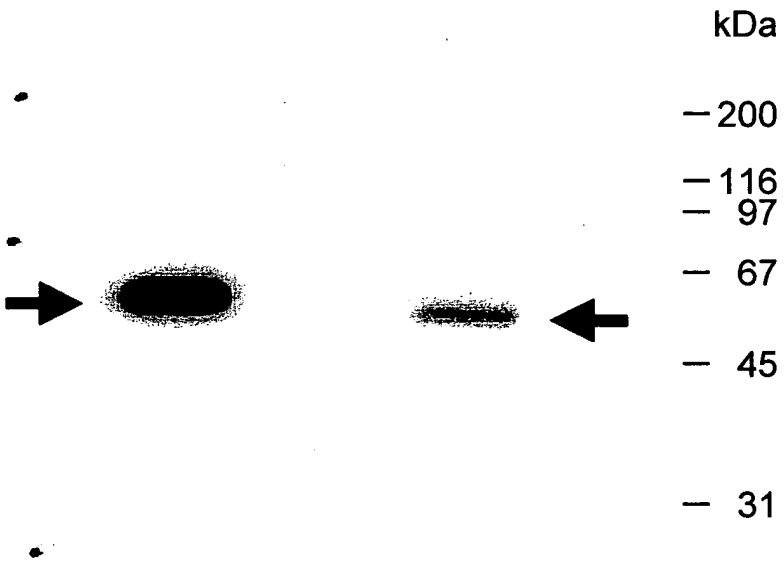


FIG.12

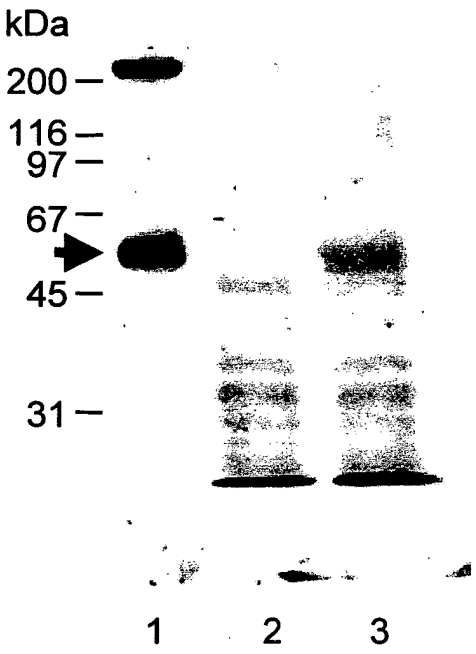


FIG.13A

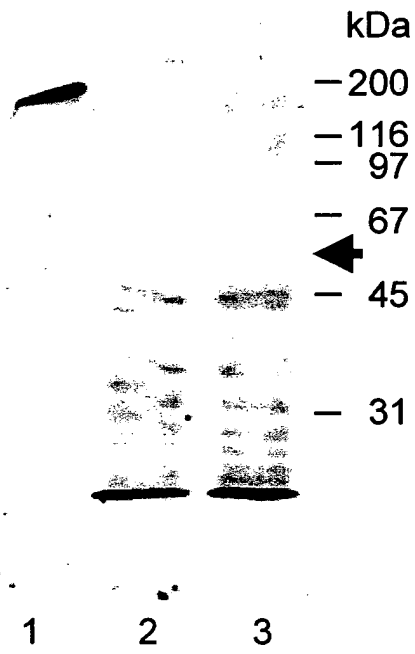


FIG.13B

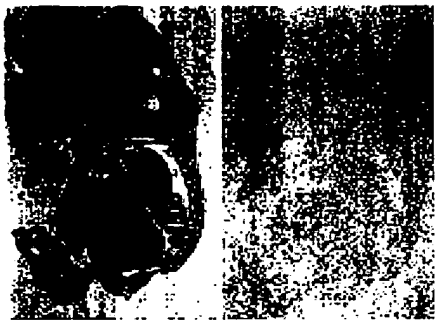


FIG.14A

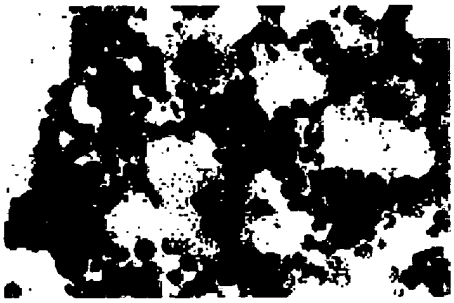


FIG.14B

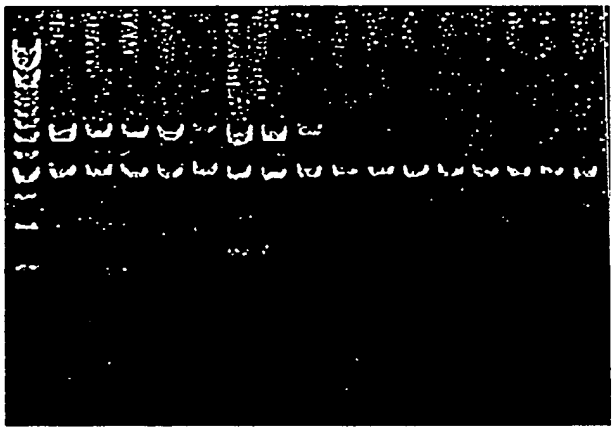


FIG.14C

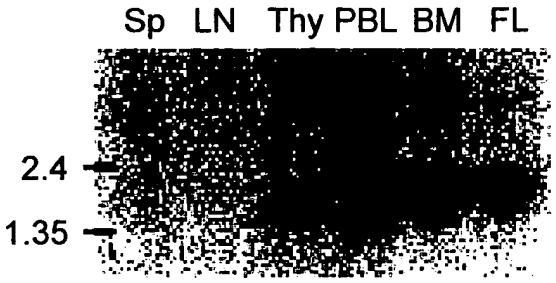


FIG.14D

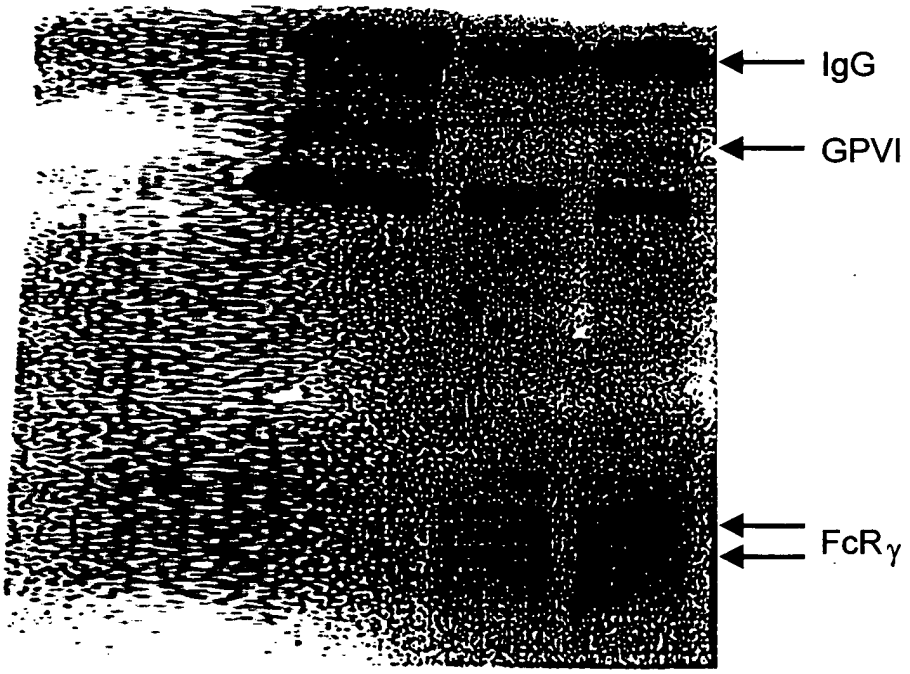


FIG.17

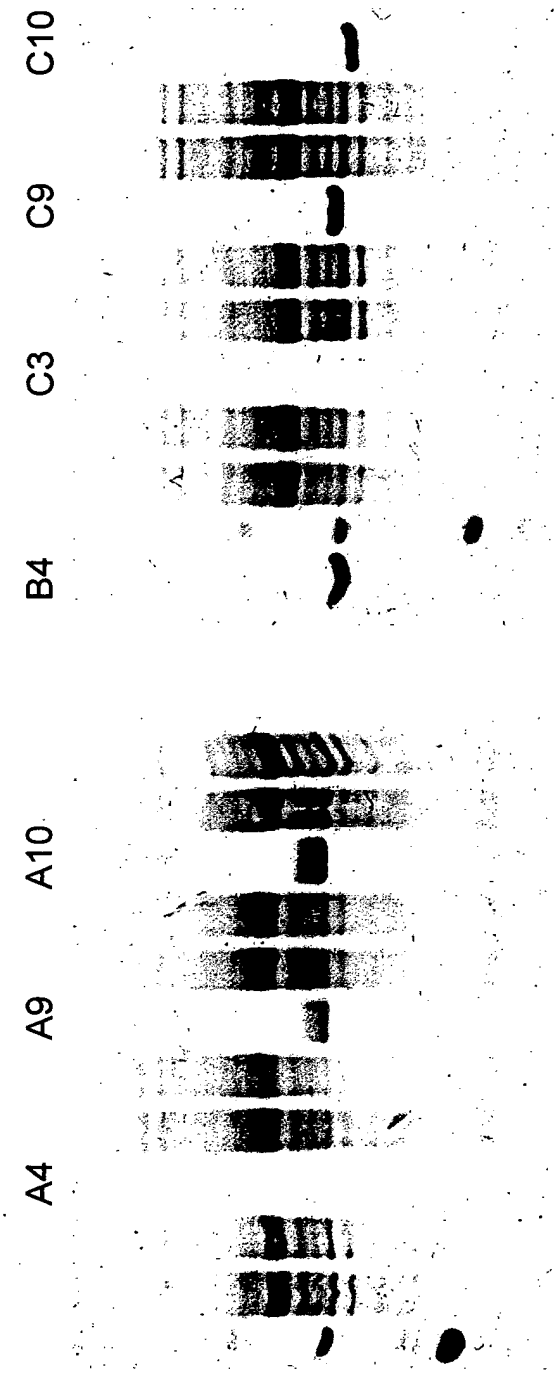


FIG.27